

Fig. 1

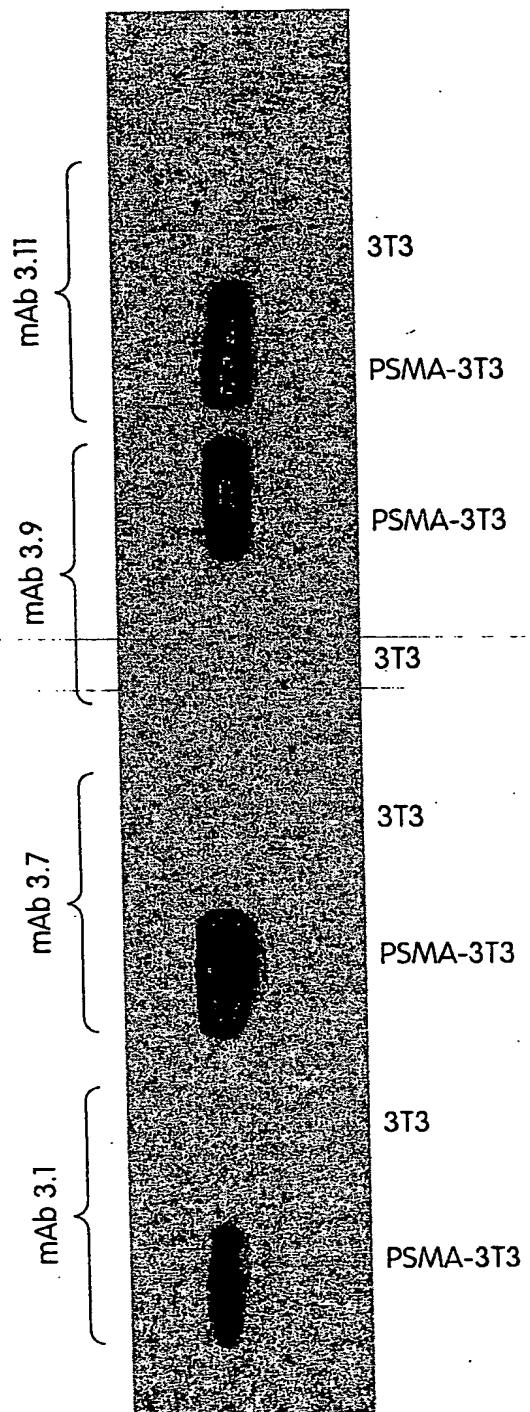


Fig. 2

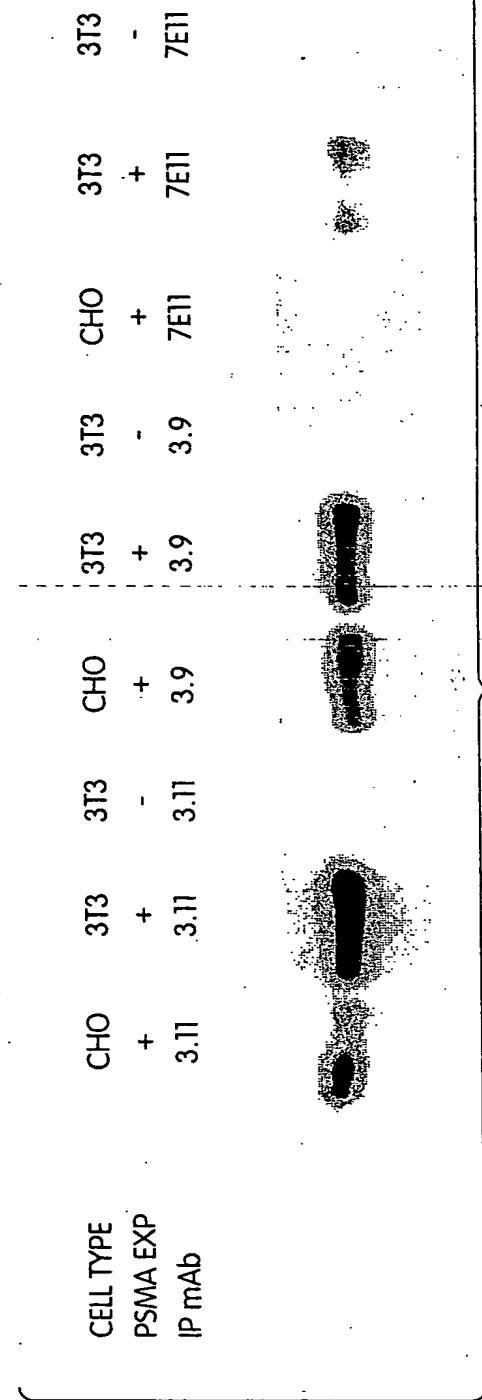


Fig. 3

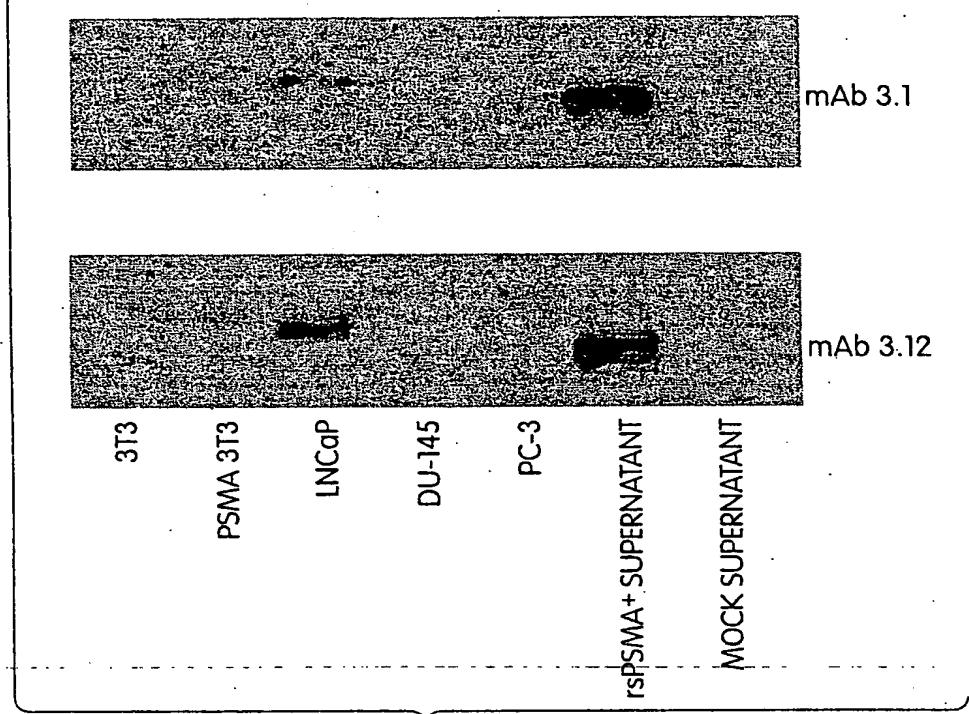


Fig. 4

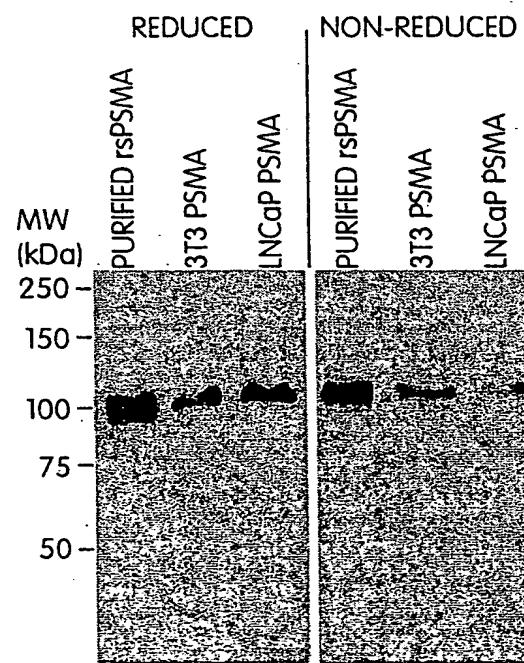


Fig. 5

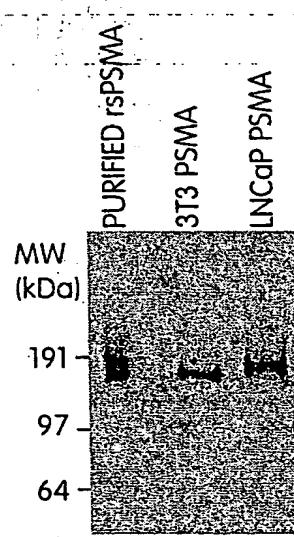
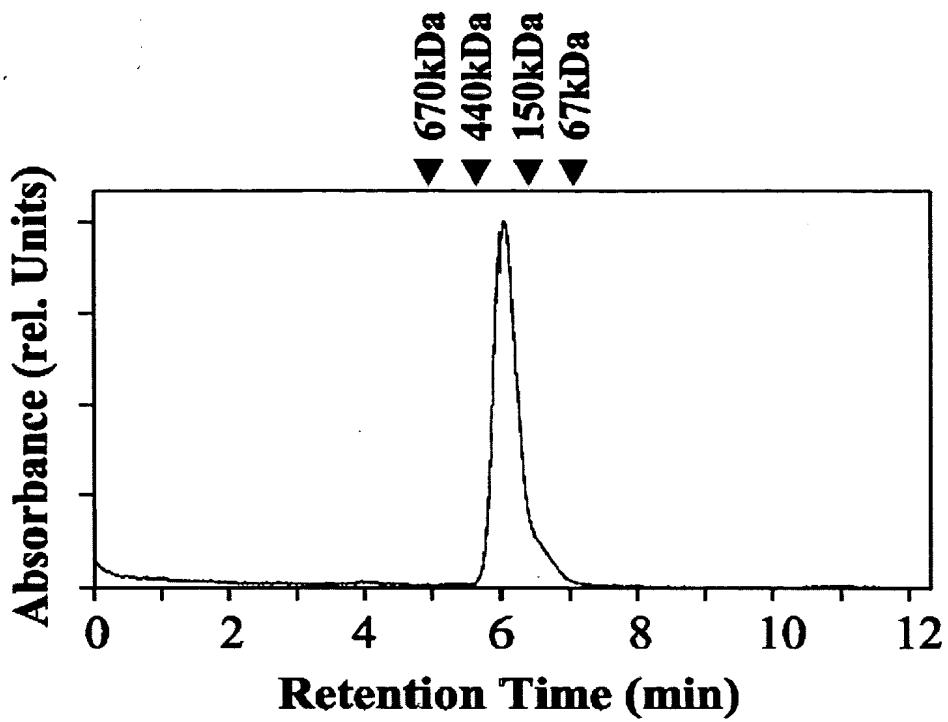


Fig. 6



**Fig. 6B**

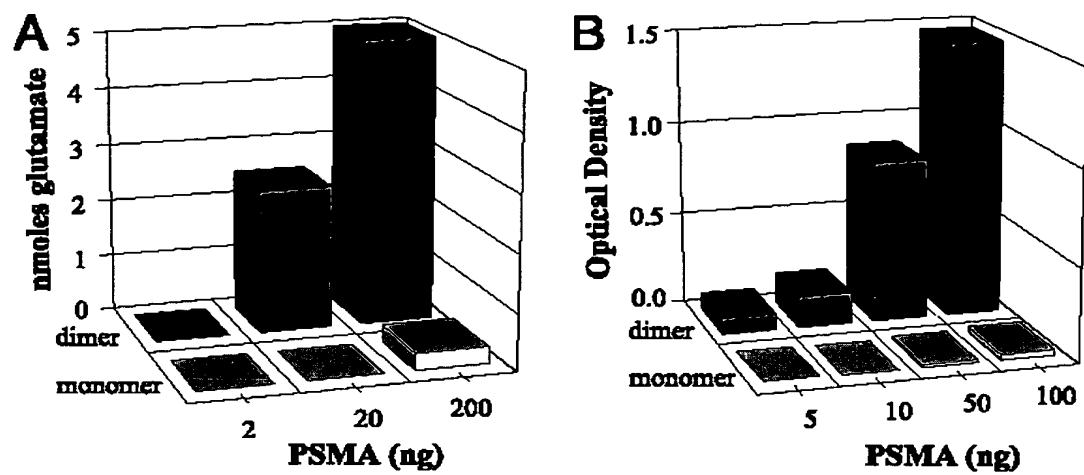


Fig. 7

EFFECT OF VARIOUS ANTIBODIES ON THE RATE OF glu CLEAVED FROM MTXglu2 BY  
FOLATE HYDROLASE ACTIVITY PRESENT IN 0.0002 ug rsPSMA #7

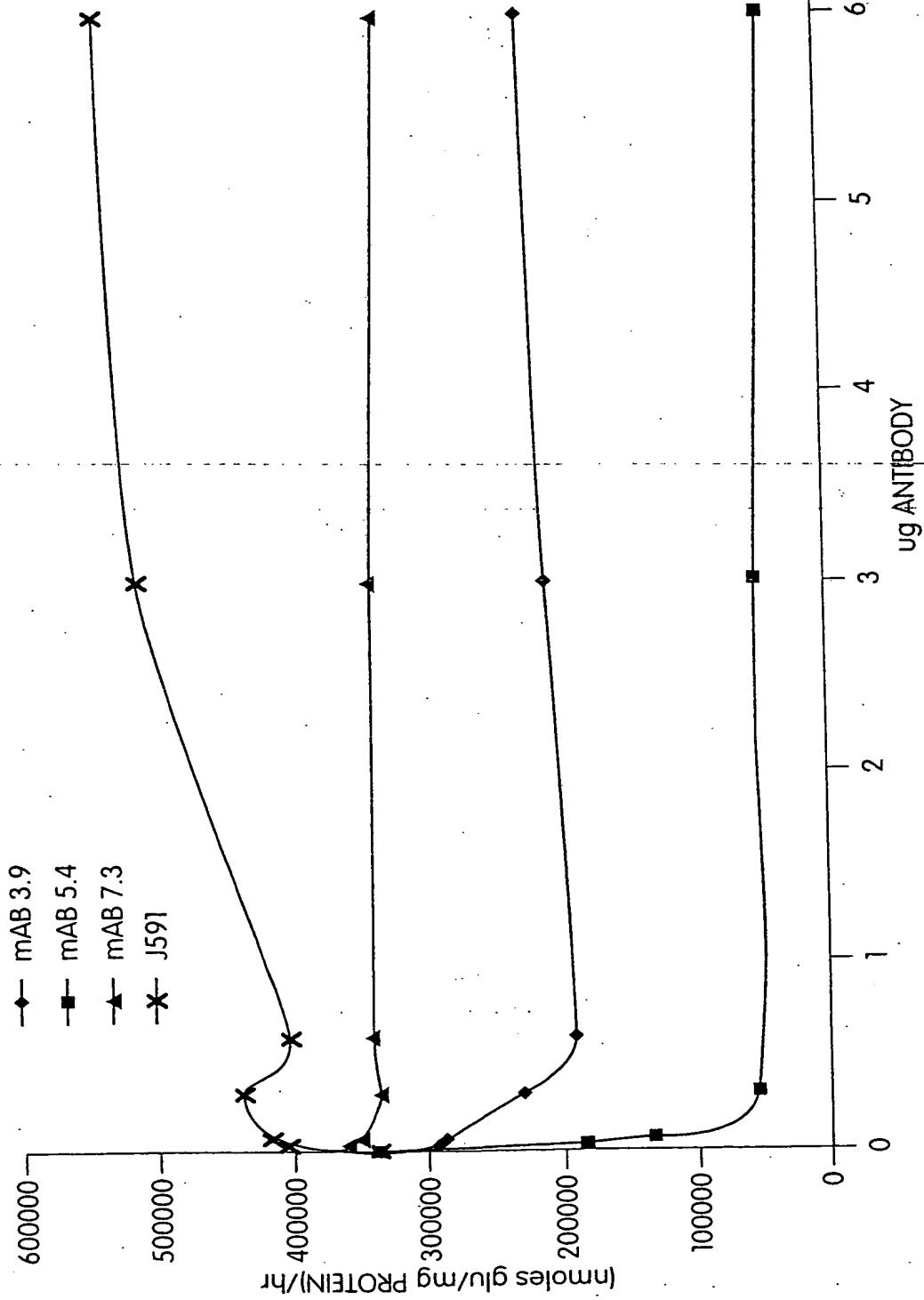
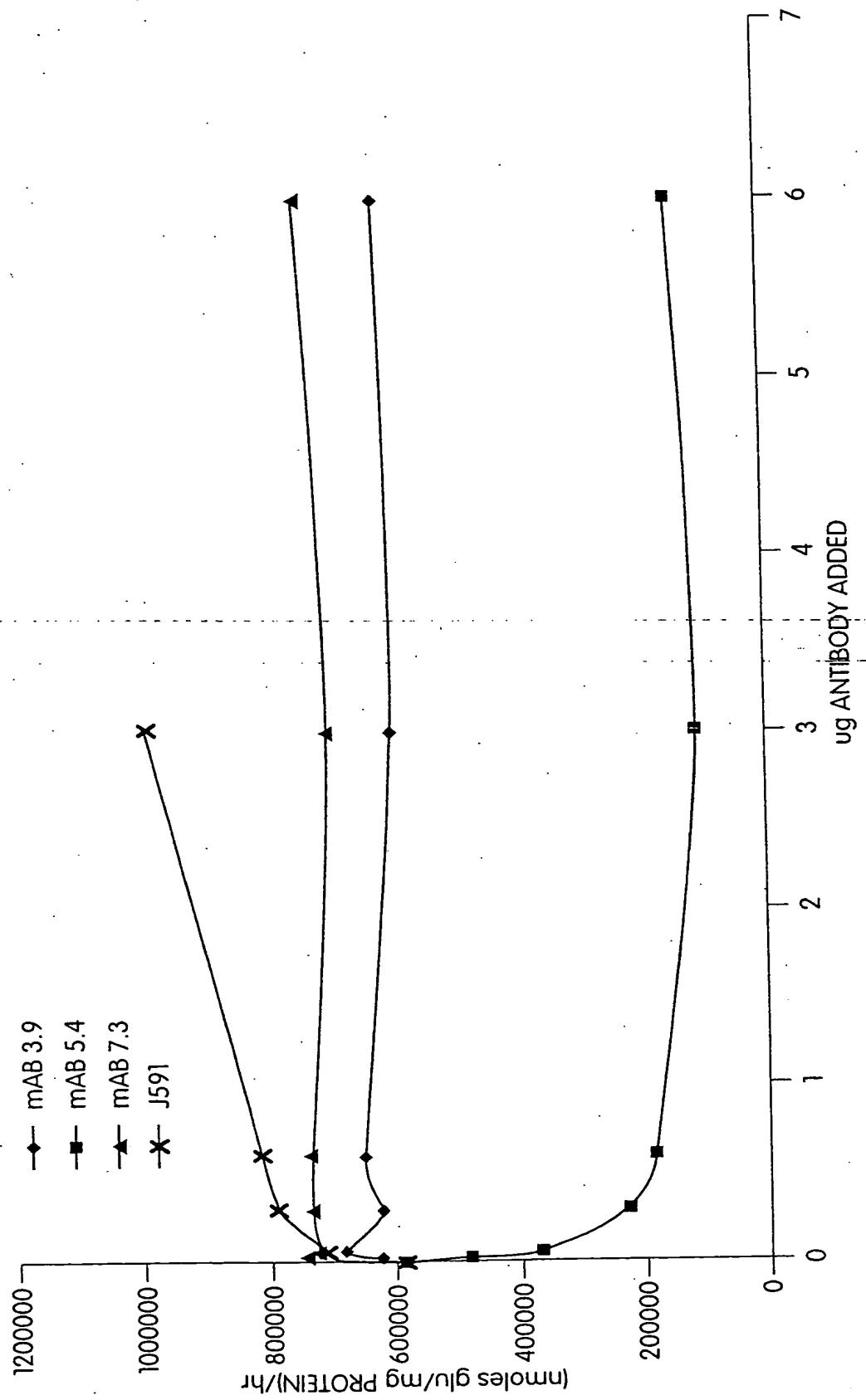


Fig. 8

EFFECT OF VARIOUS ANTIBODIES ON THE RATE OF glu CLEAVED FROM MTXglu2 BY  
FOLATE HYDROLASE ACTIVITY PRESENT IN 0.0002 ug rPSMA #8



EFFECT OF VARIOUS ANTIBODIES ON THE RATE OF glu CLEAVED FROM MTXglu2 BY  
FOLATE HYDROLASE ACTIVITY PRESENT IN C4-2 CELL MEMBRANE PREP, 8/15/01

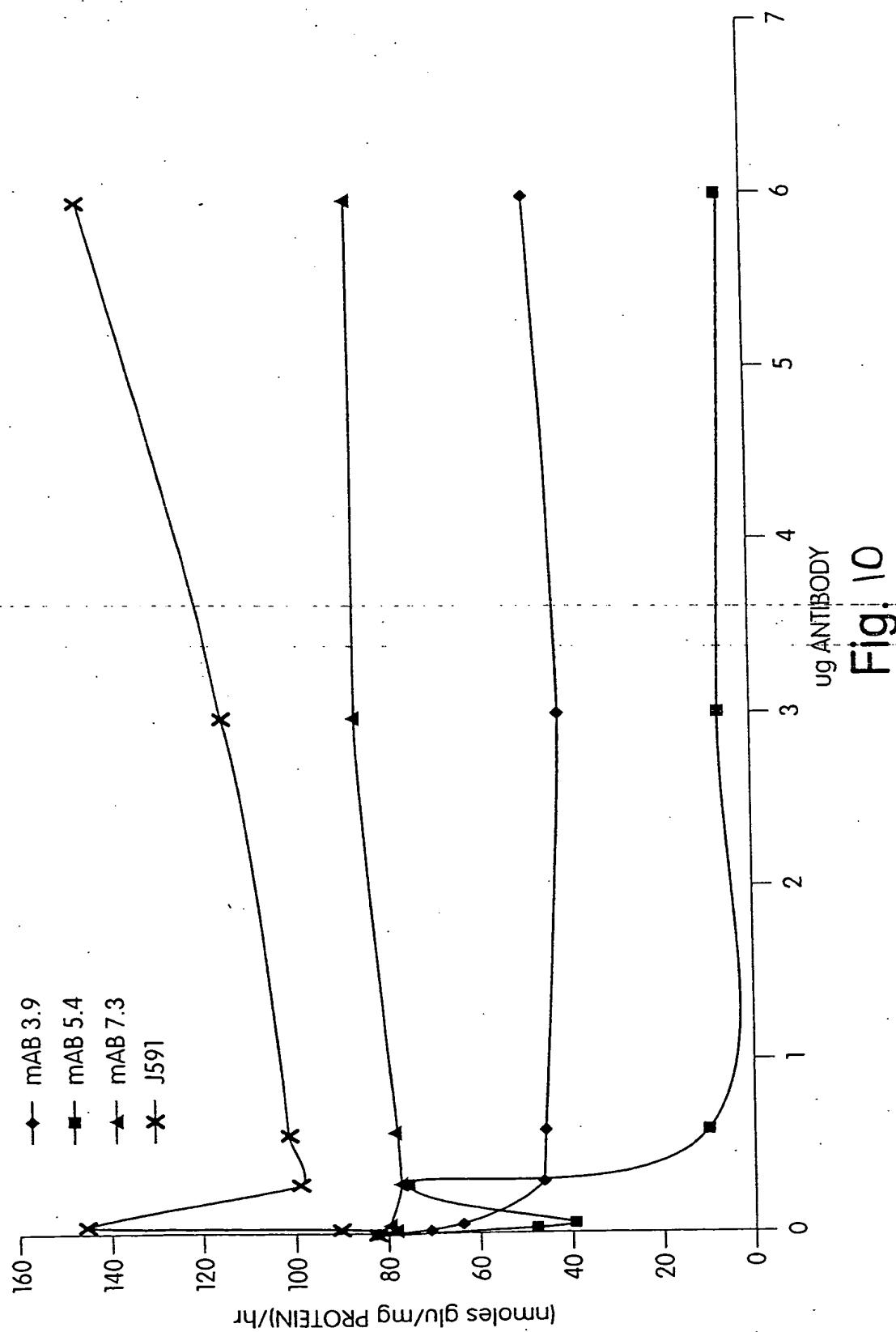
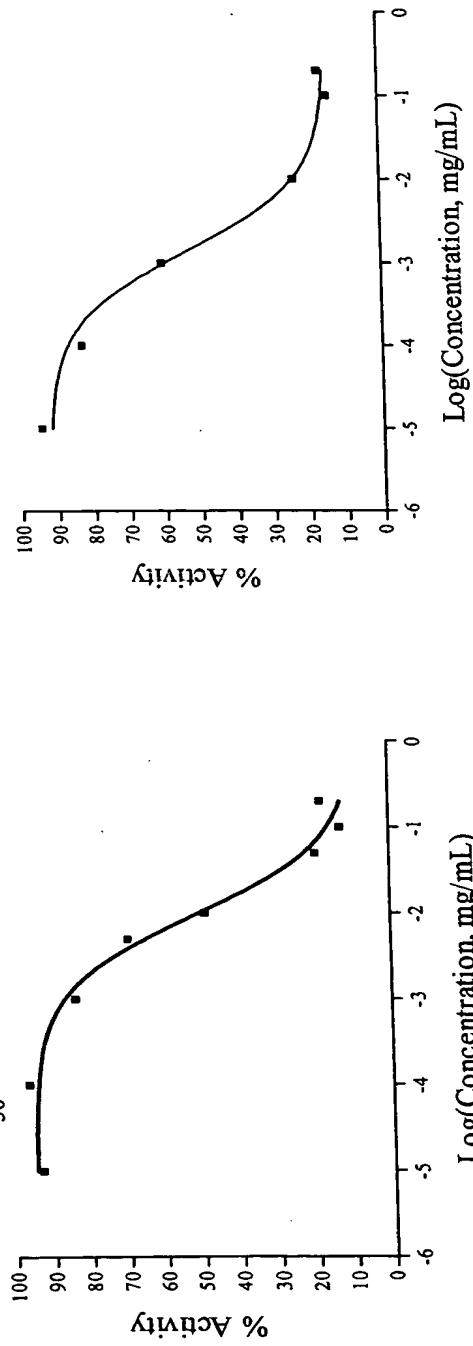


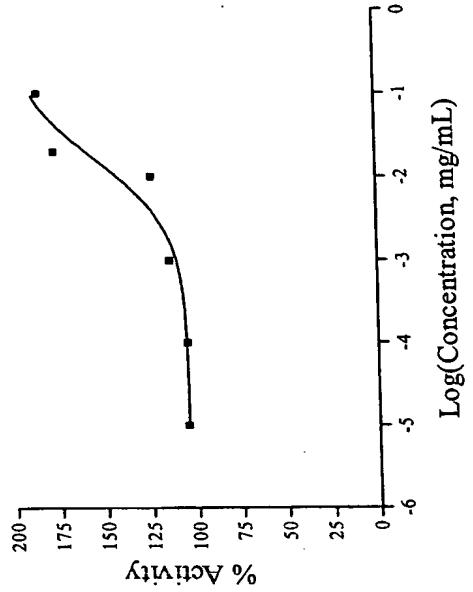
Fig. 10

Fig. 1

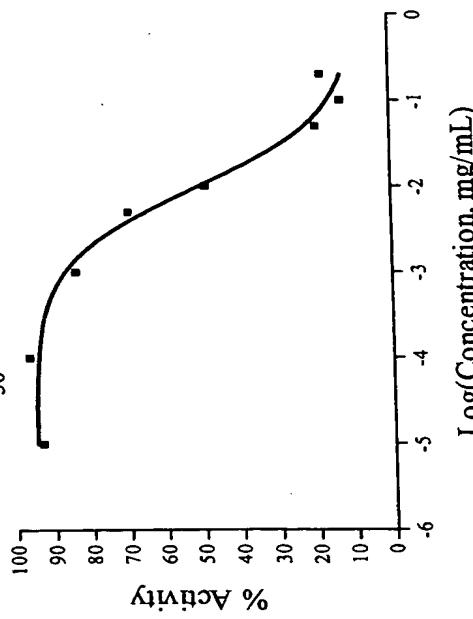
human mAb026  
 $IC_{50} = 0.001385 \text{ mg/mL}$



human mAb 4.40.2



human mAb006  
 $IC_{50} = 0.009338 \text{ mg/mL}$



murine mAb 5.4  
 $IC_{50} = 0.0004902 \text{ mg/mL}$

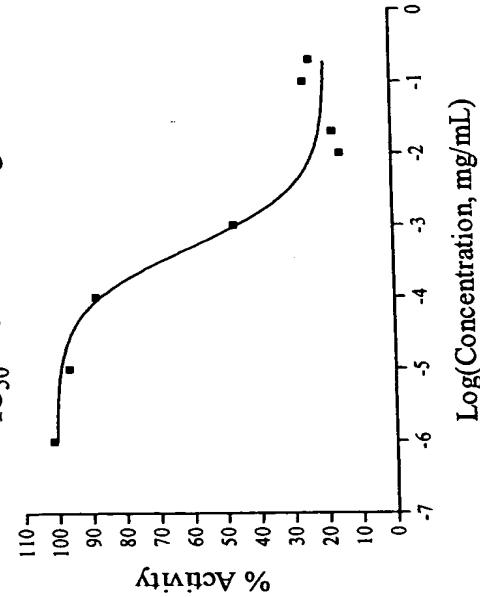
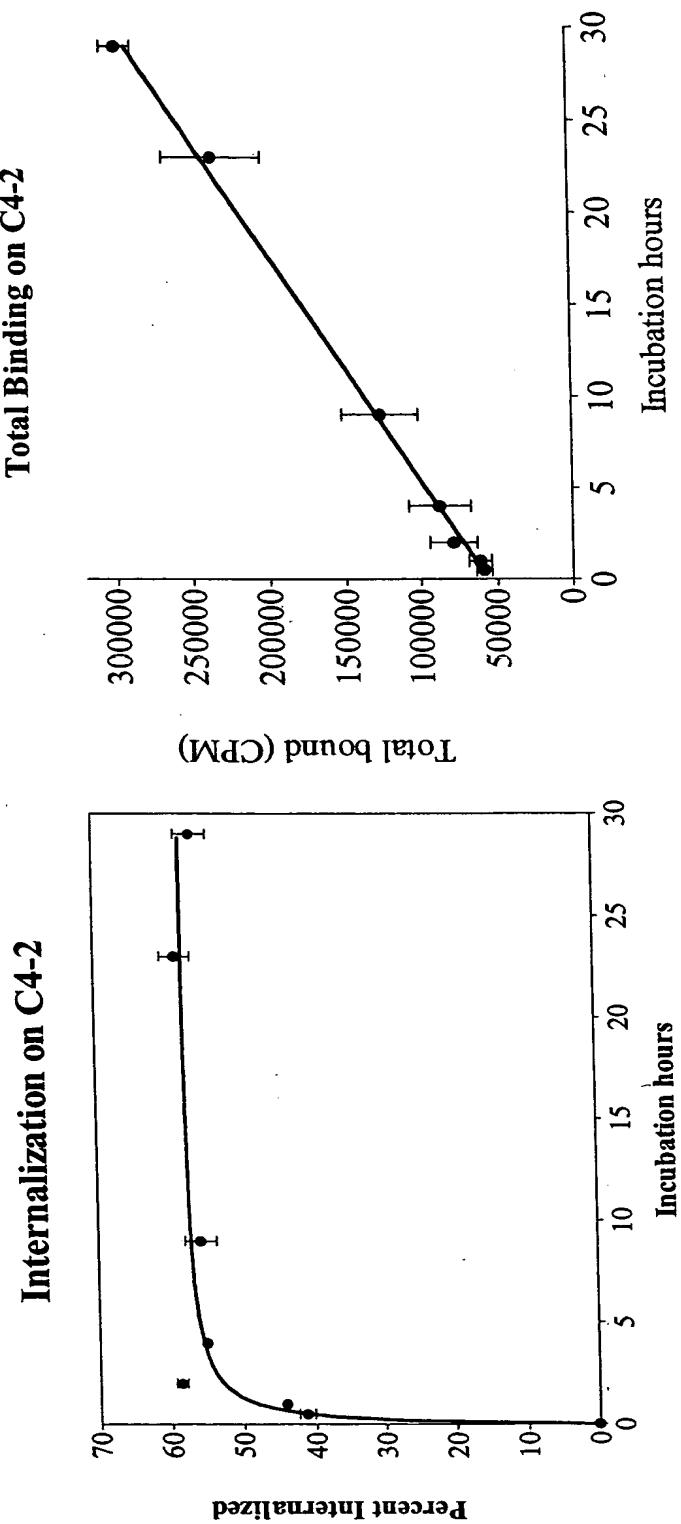


Fig. 12



### Human IgG1 cloning - into pcDNA

#### Construction of pcDNA-huC $\kappa$ and pcDNA-huIgG1

		PCR product	Vector
C $\kappa$	Sense	5' XbaI HindIII BamHI NheI 3'	5' NheI NotI 3' (pcDNA.neo)
	Anti-sense	EcoRI NotI	
C $\gamma$ 1	Sense	5' XbaI KpnI HindIII BamHI NheI 3'	5' NheI/PmeI 3' (pcDNA Hygro)
	Anti-sense	EcoRI XbaI PmeI	

#### Construction of pcDNA-Ab (V-C cassette)

		PCR product	Vector
V $\kappa$	Sense	BglII or BamHI (if necessary)*	5' BamHI NheI 3' (pcDNA-huC $\kappa$ )
	Anti-sense	NheI	
V $\gamma$ 1	Sense	BglII or BamHI (if necessary)*	5' BamHI NheI 3' (pcDNA-huIgG1)
	Anti-sense	XbaI	

\* BamHI primer is used if the V region has an internal BglII site

#### Human IgG cloning - V-C cassette from pcDNA into "production" vector

		Insert from pcDNA
Ig $\kappa$		5' HindIII or BamHI (if alternate sense primer used) 3' EcoRI, NotI, XbaI, XbaI or PmeI
IgG1		5' KpnI, HindIII or BamHI (if alternate sense primer used) 3' EcoRI*, XbaI or PmeI

\* 2<sup>nd</sup> EcoRI site present in hygromycin resistance gene

#### Primers used for V region amplification

##### V $\kappa$ -sense:

5' GAAGATCTCACC ATG + 20-23 bp leader sequence 3'  
BglII Kozak

##### V $\kappa$ anti-sense (reverse/complementary):

5' AACTA GCT AGC AGT TCC AGA TTT CAA CTG CTC ATC AGA T 3'  
S A T G S K L Q E D S (aa. 23-13 C $\kappa$ )  
NheI

Cloning site of NheI codes for A S - therefore no amino acid change due to cloning.

##### V $\gamma$ -sense:

5' GAAGATCTCACC ATG + 17-29bp leader sequence 3'  
BglII Kozak

##### V $\gamma$ anti-sense (reverse/complementary):

5' GC TCT AGA GGG TGC CAG GGG GAA GAC CGA T 3'  
(R) S P A L P F V S (aa. 14-7 C $\gamma$ 1)  
XbaI

Cloning into

5' CG GCT AGC  
S (A)

Cloning site junction of XbaI/NheI (TCT AGC) codes for S S - therefore no amino acid change due to cloning.

Fig. 13

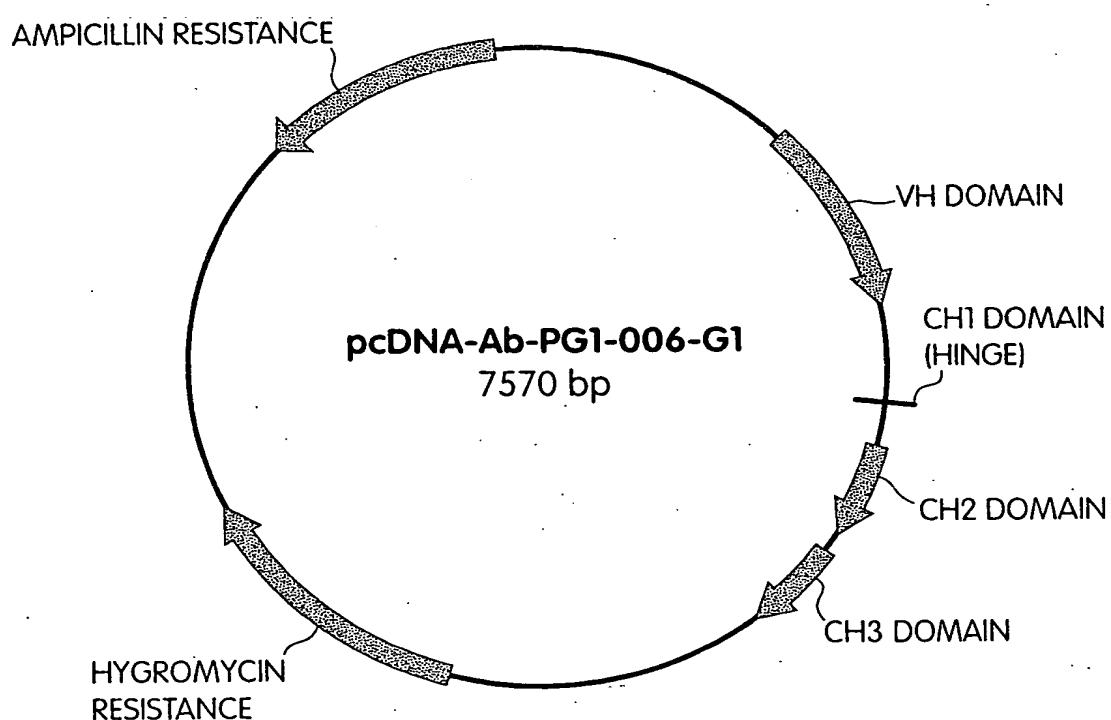


Fig. 14

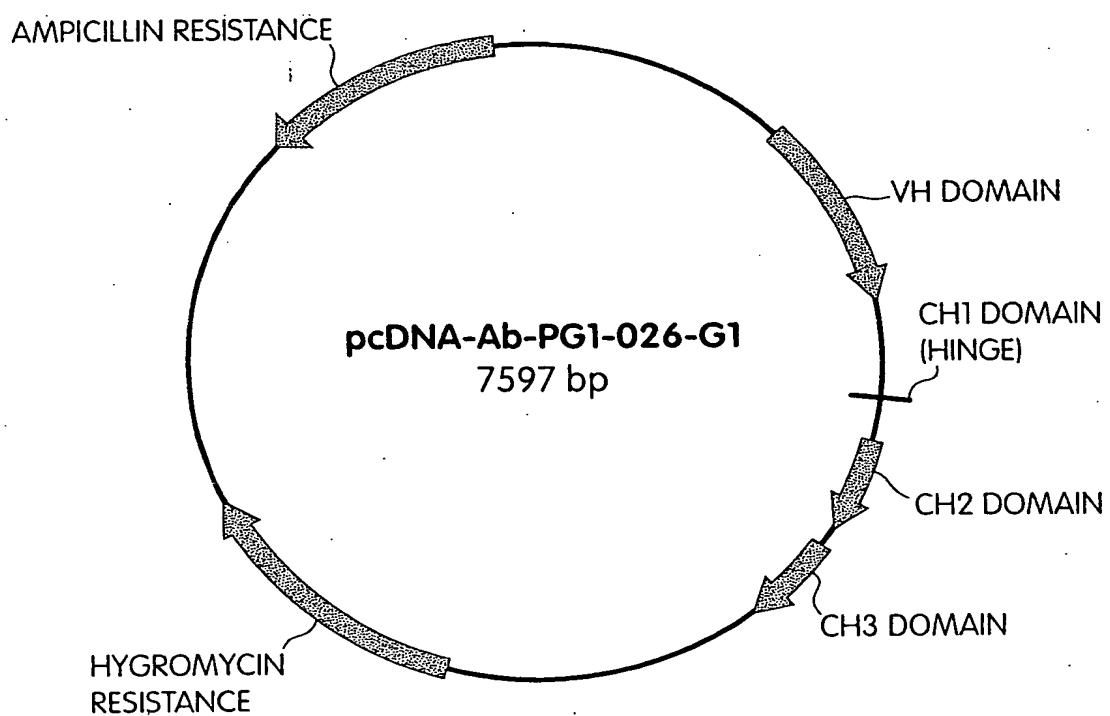


Fig. 15

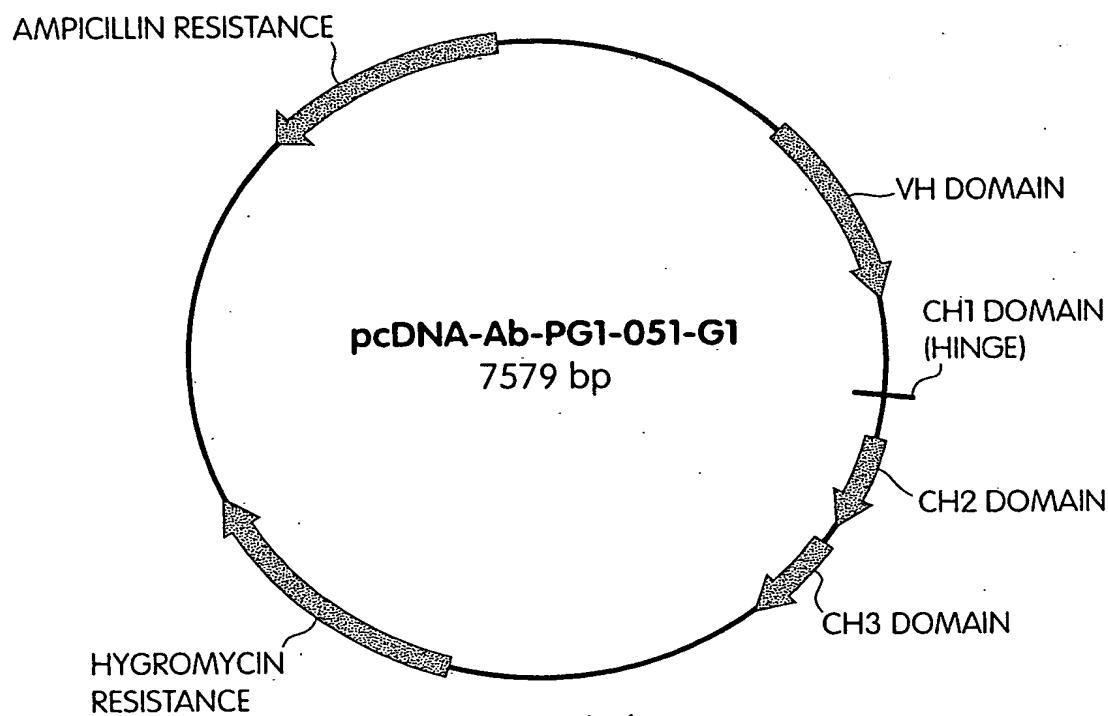


Fig. 16

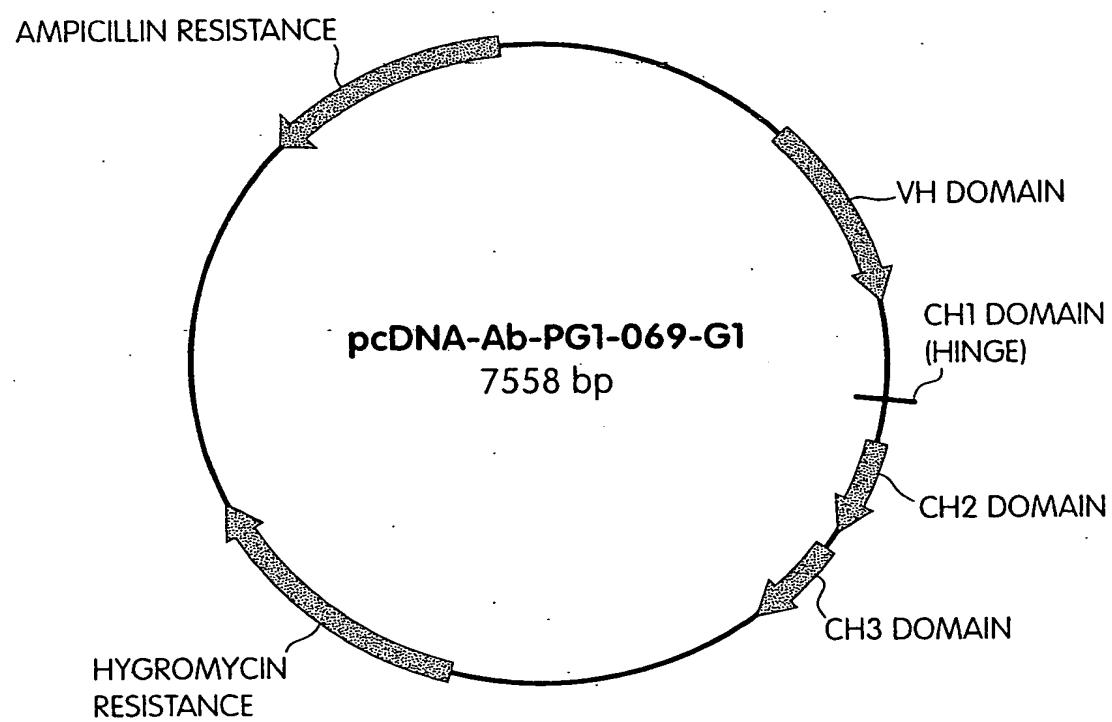


Fig. 17

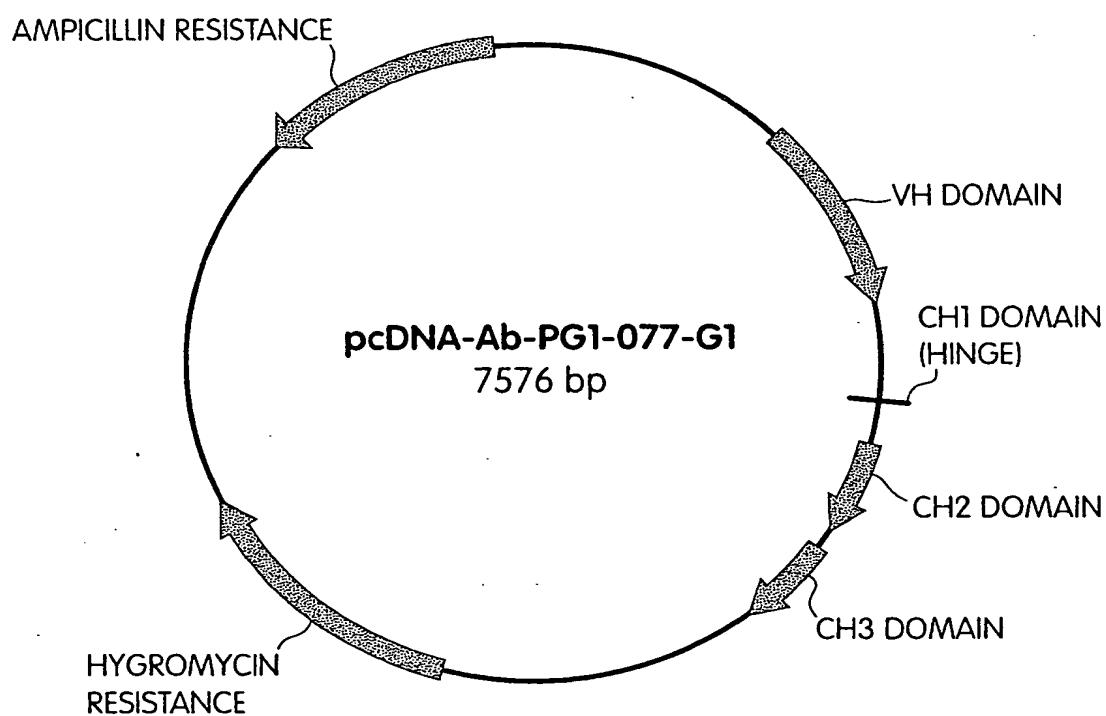


Fig. 18

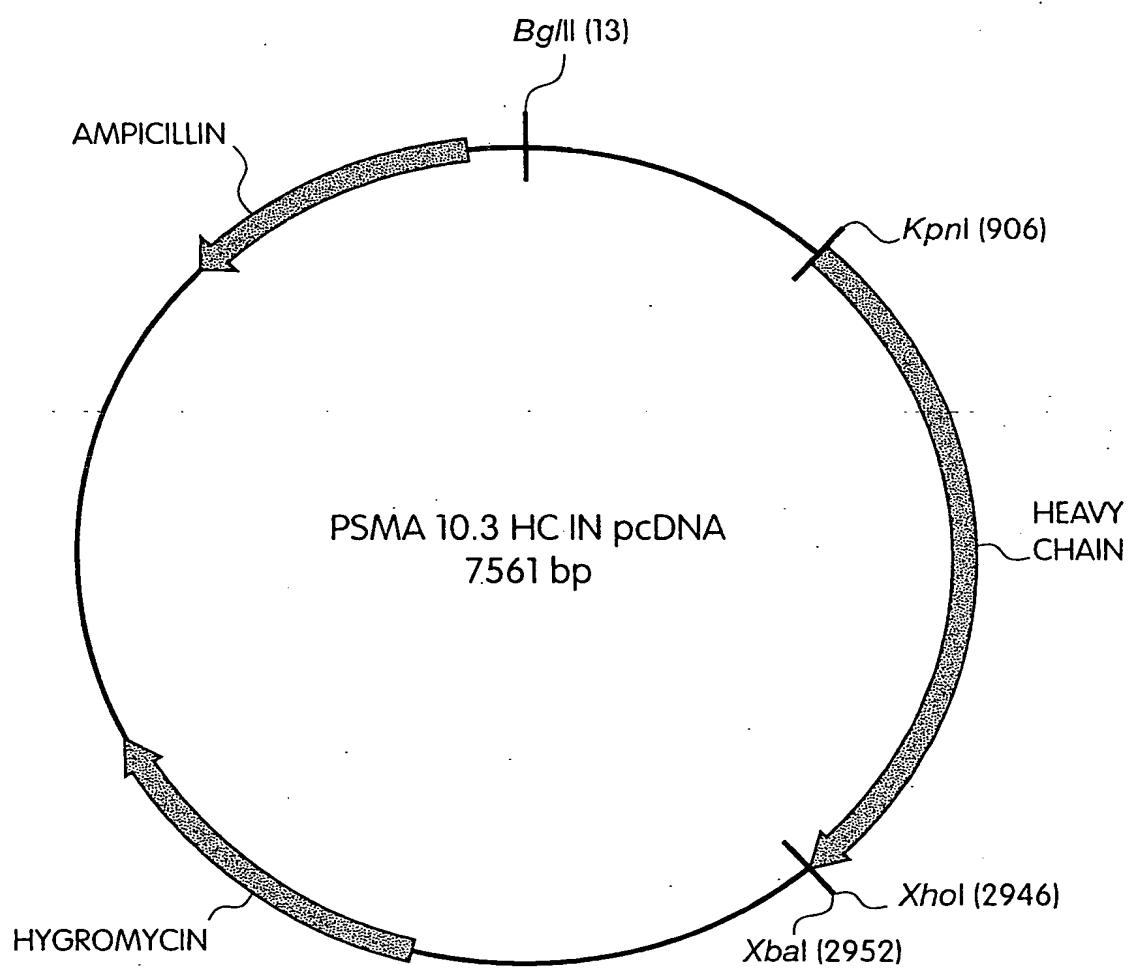


Fig. 19

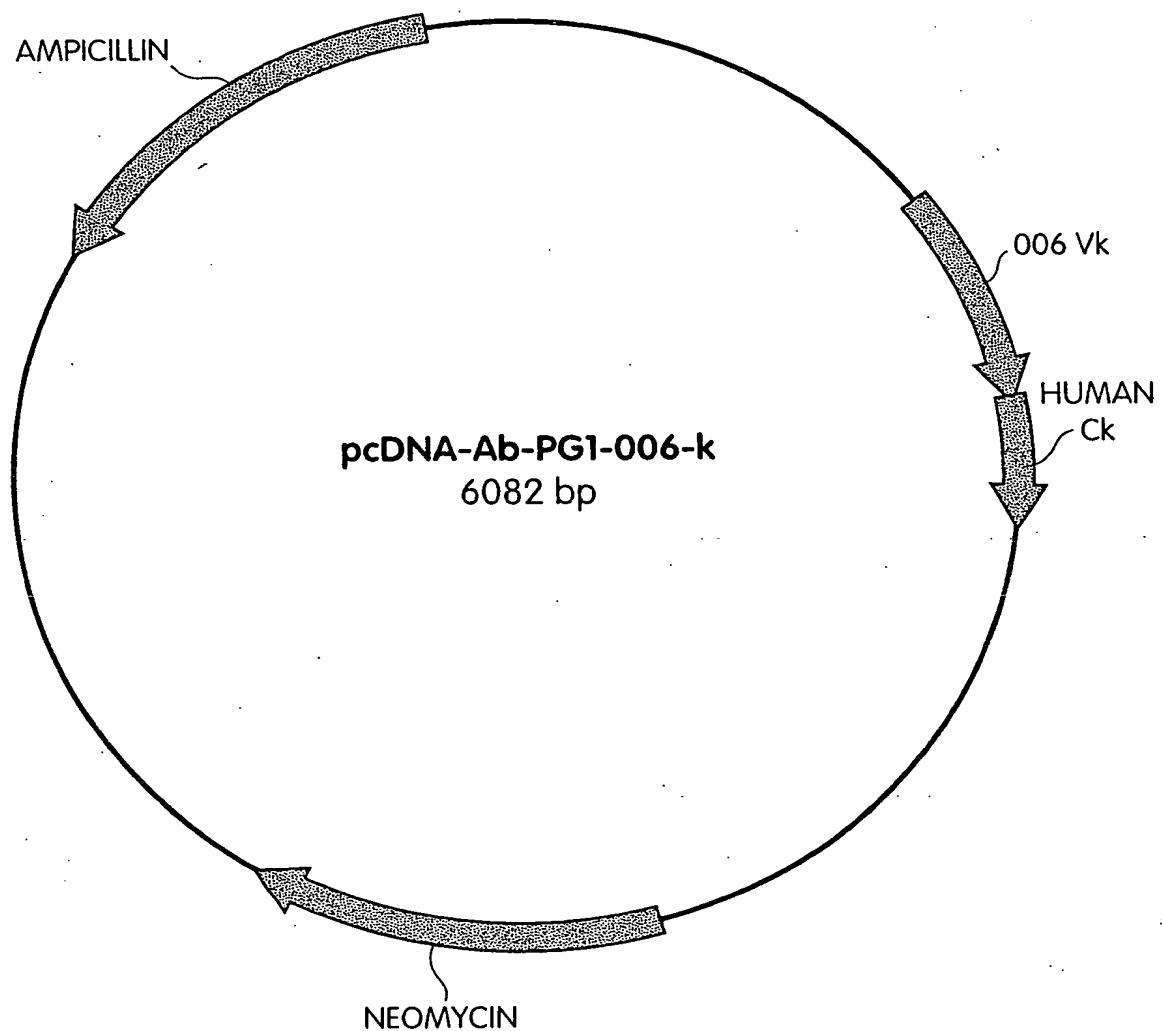


Fig. 20

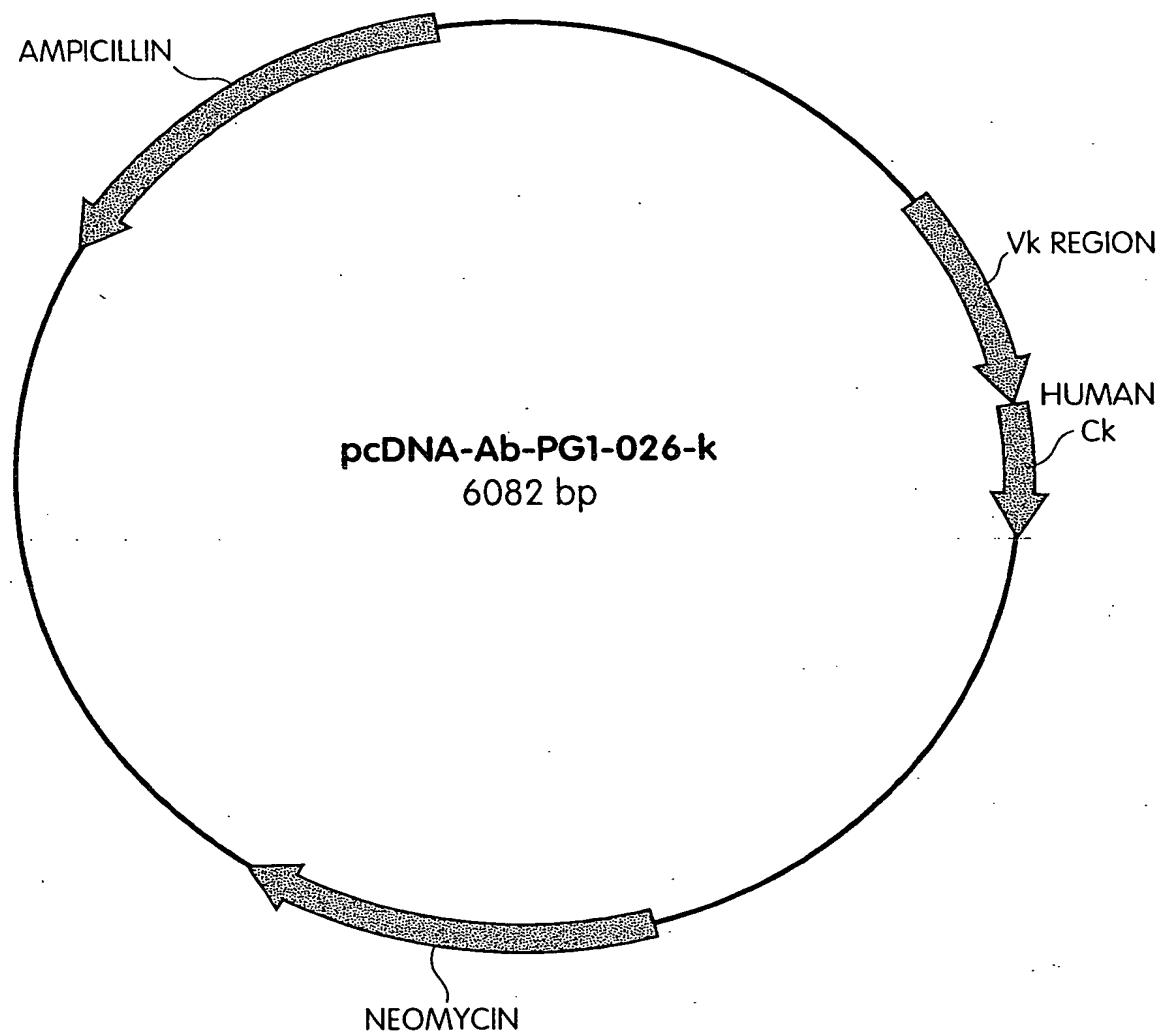


Fig. 21

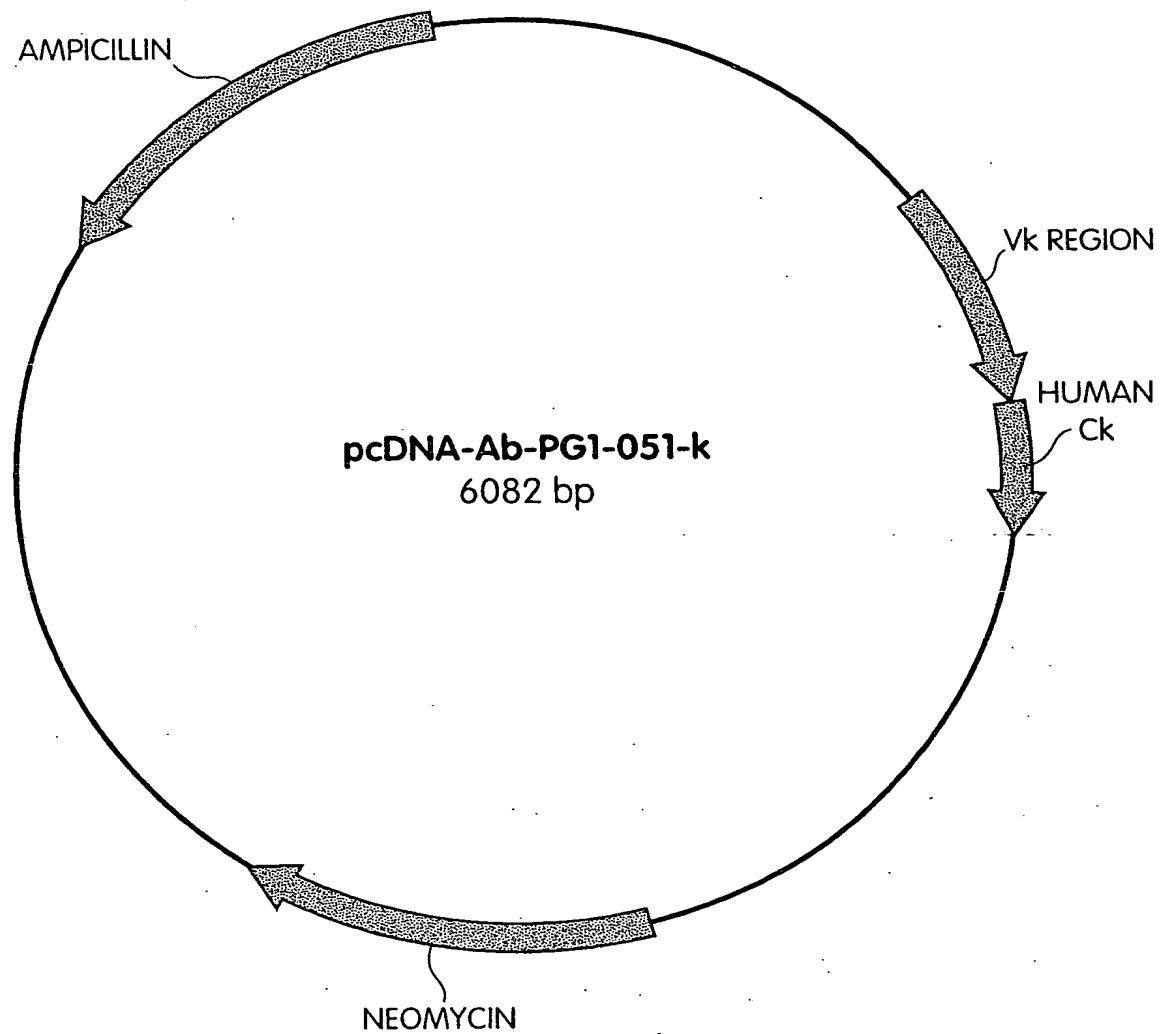


Fig. 22

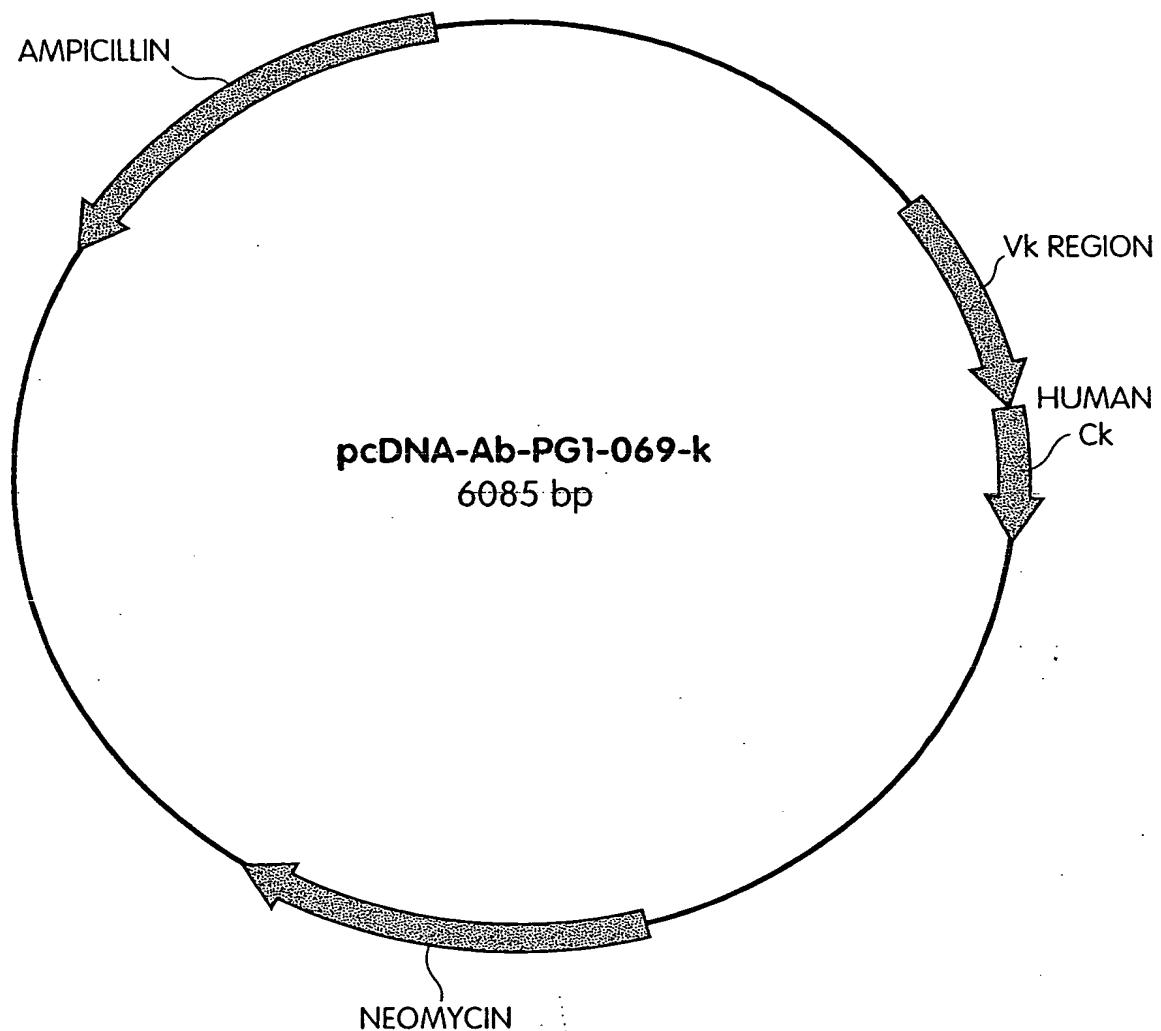


Fig. 23

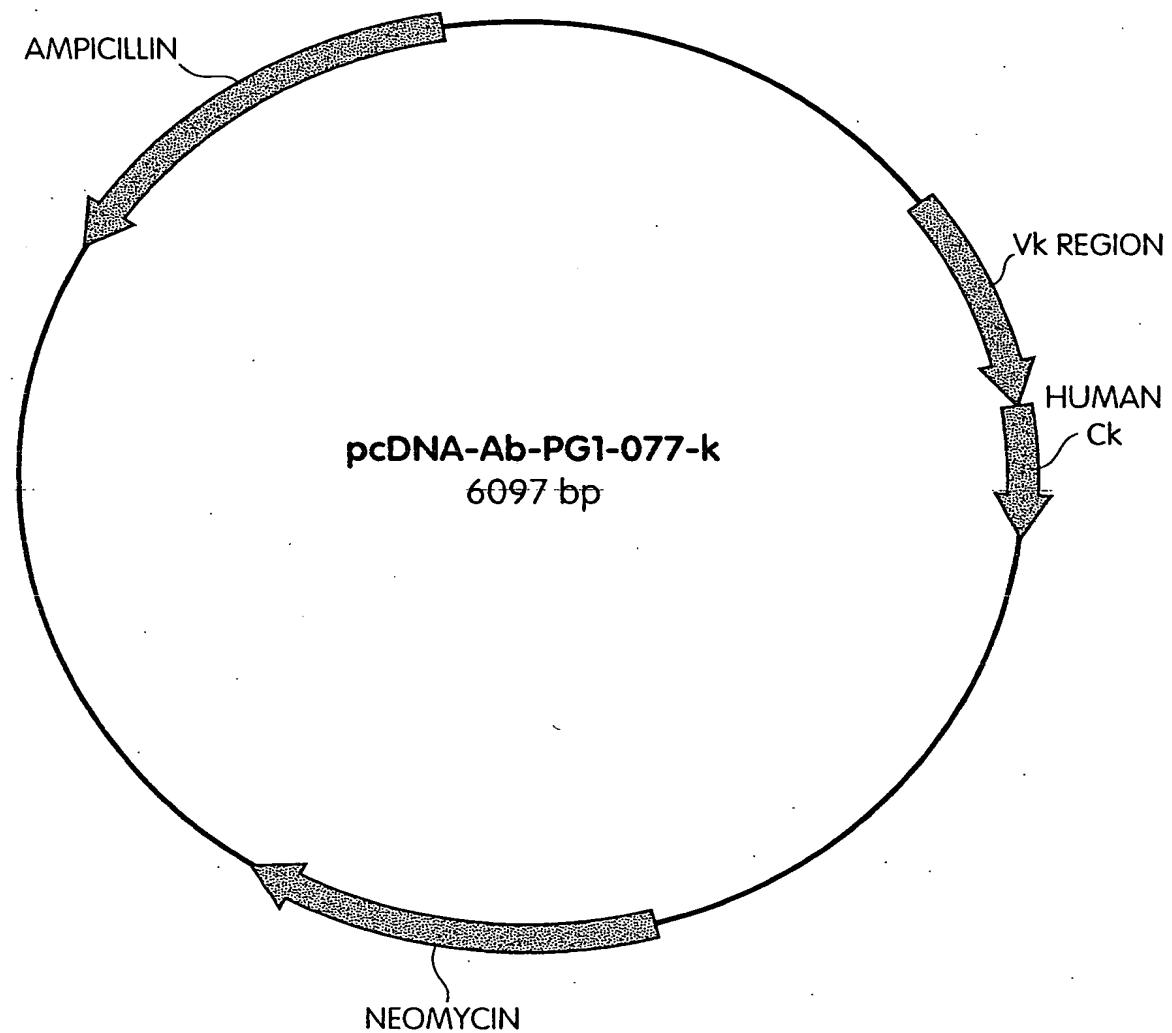


Fig. 24

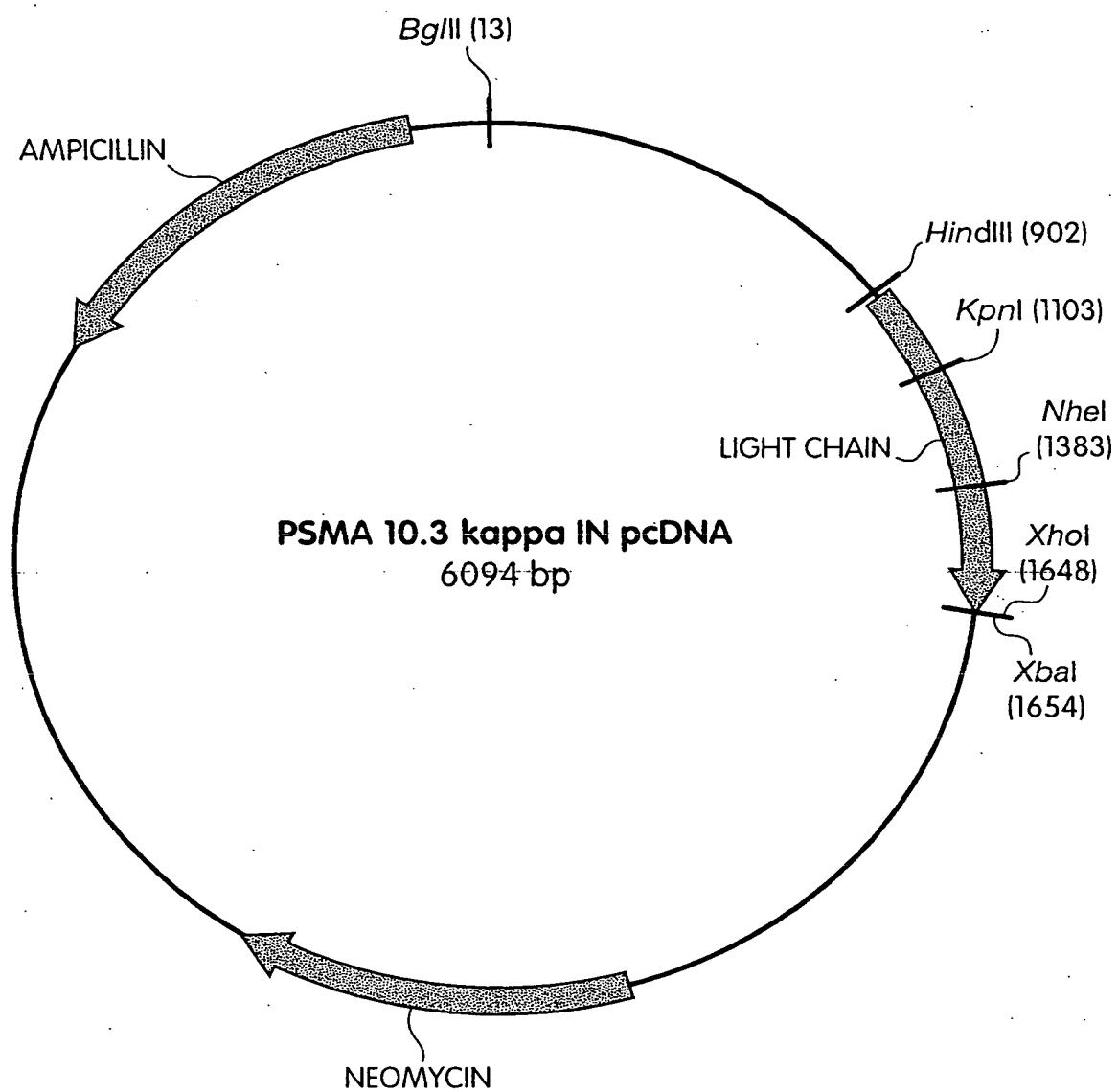


Fig. 25

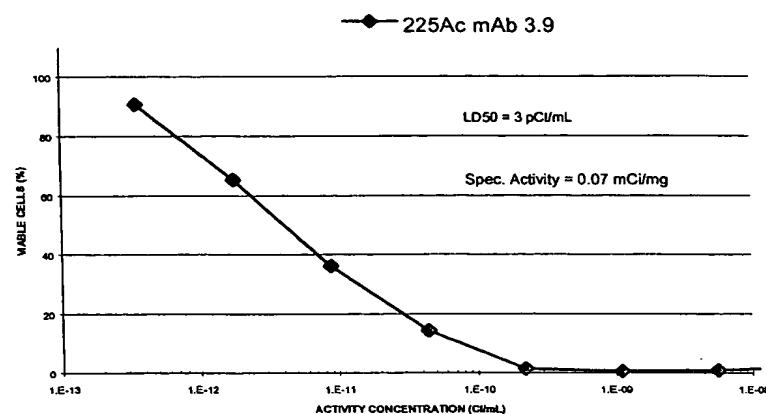


Fig. 2 ↴

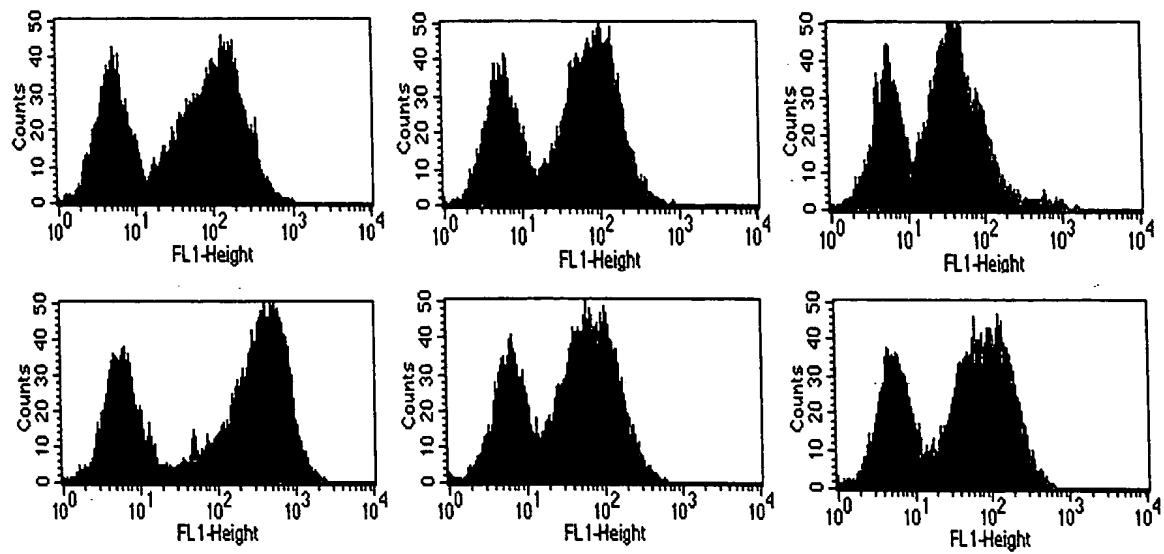


Fig. 27

## Anti-PSMA mAbs bind specifically to cell surface PSMA

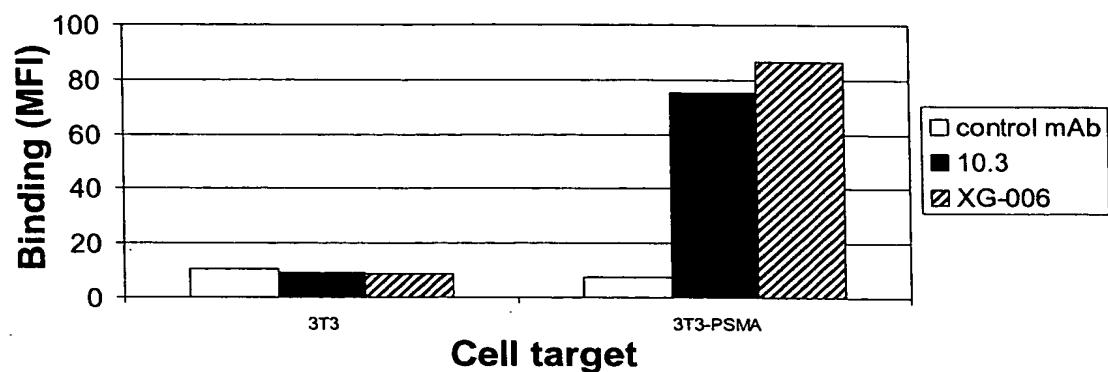


Fig. 28A

**Anti-PSMA mAb binding to cell surface PSMA  
(Unpurified mAb in culture supernatant)**

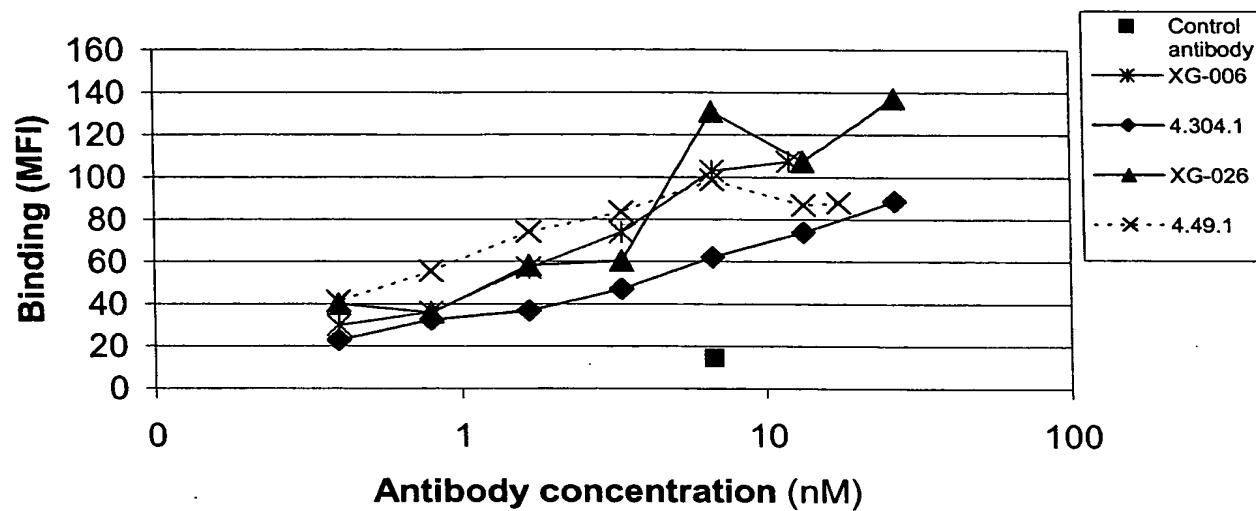


Fig. 28B

**Purified anti-PSMA Abs binding to cell surface  
PSMA**

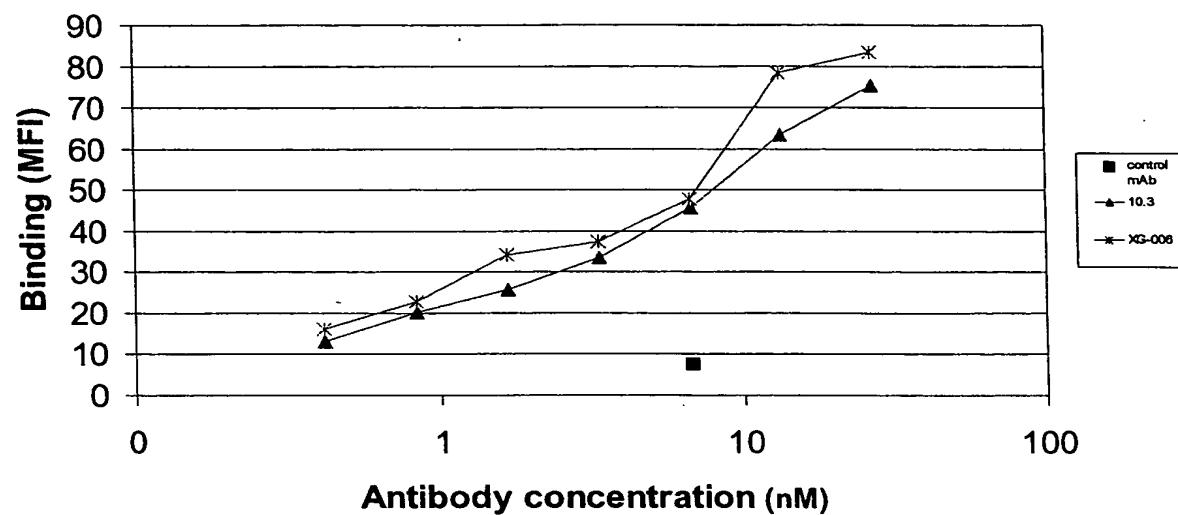


Fig. 28C

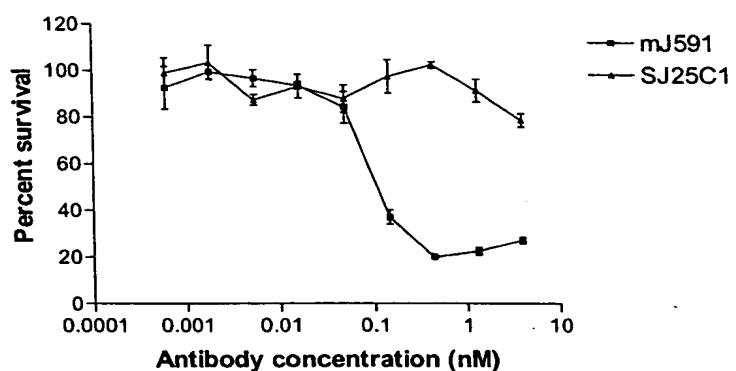
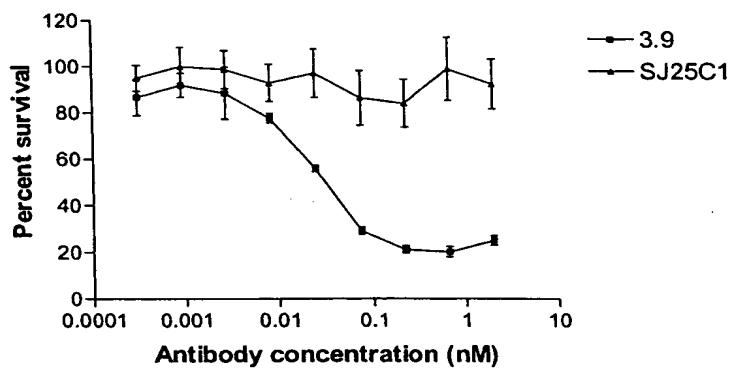
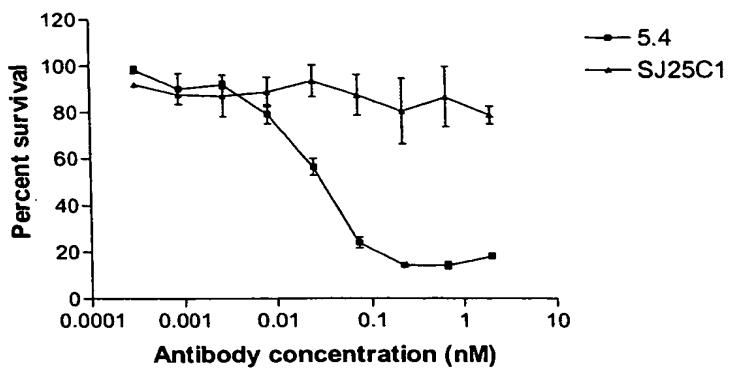


Fig. 2<sup>9</sup>

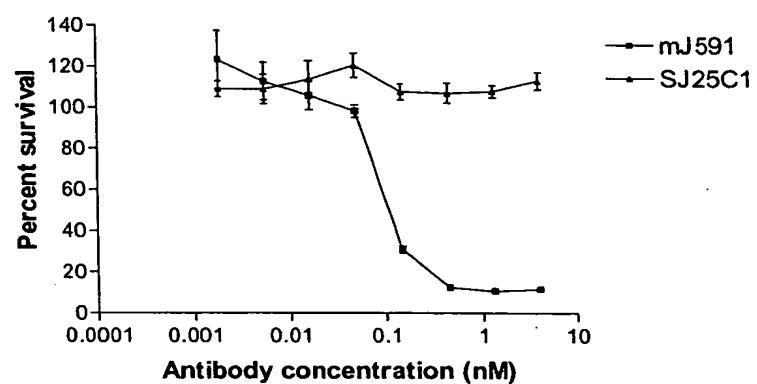
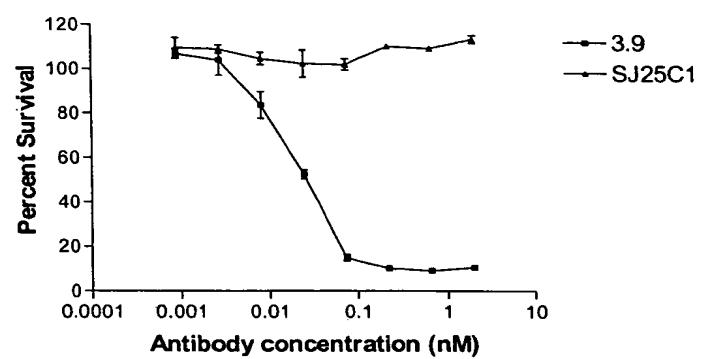
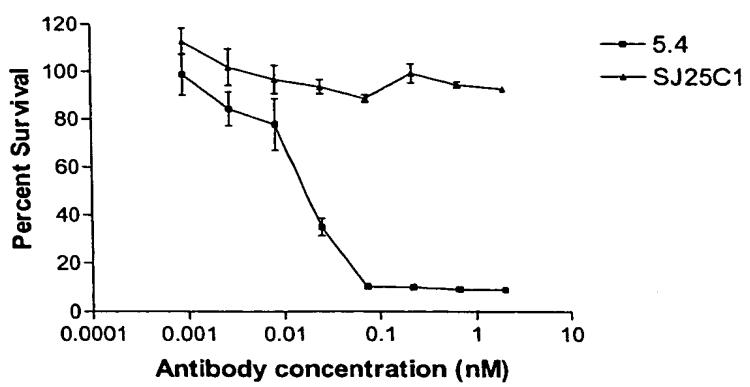


Fig. 30

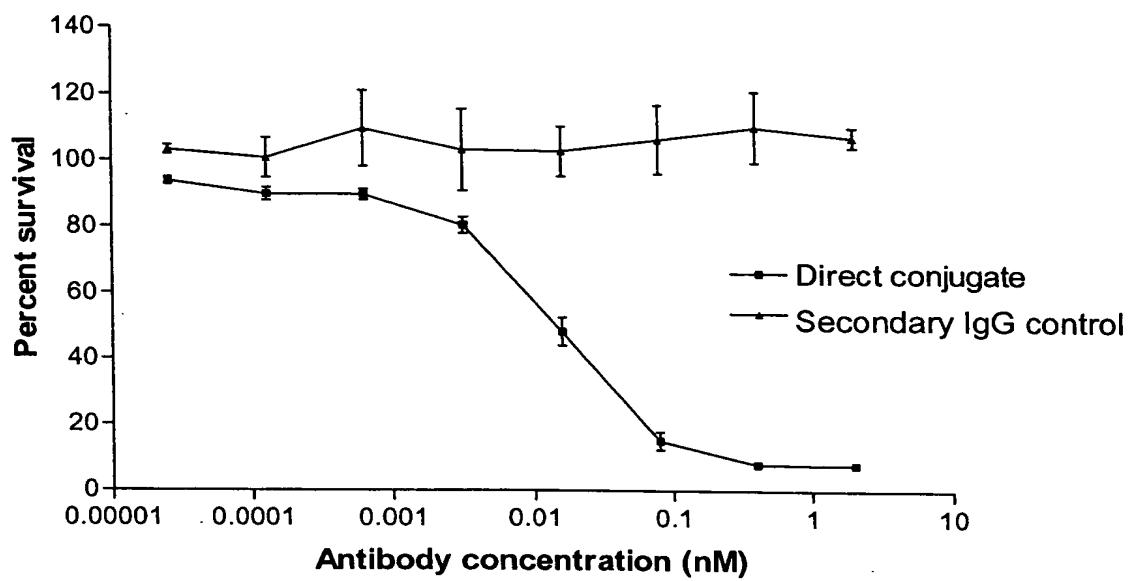


Fig. 3 |

## Competition

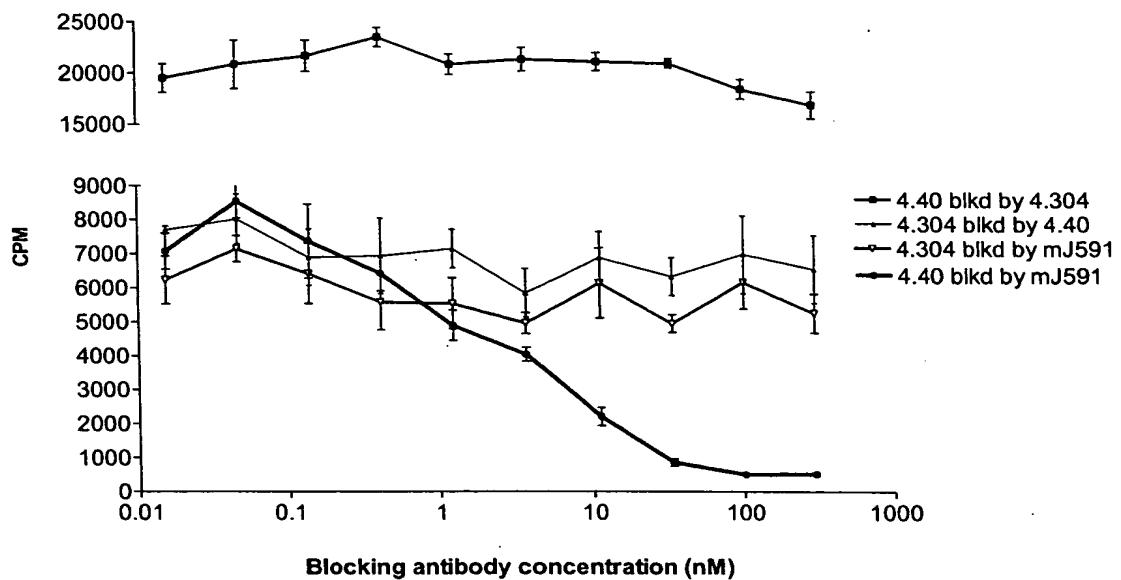


Fig. 32

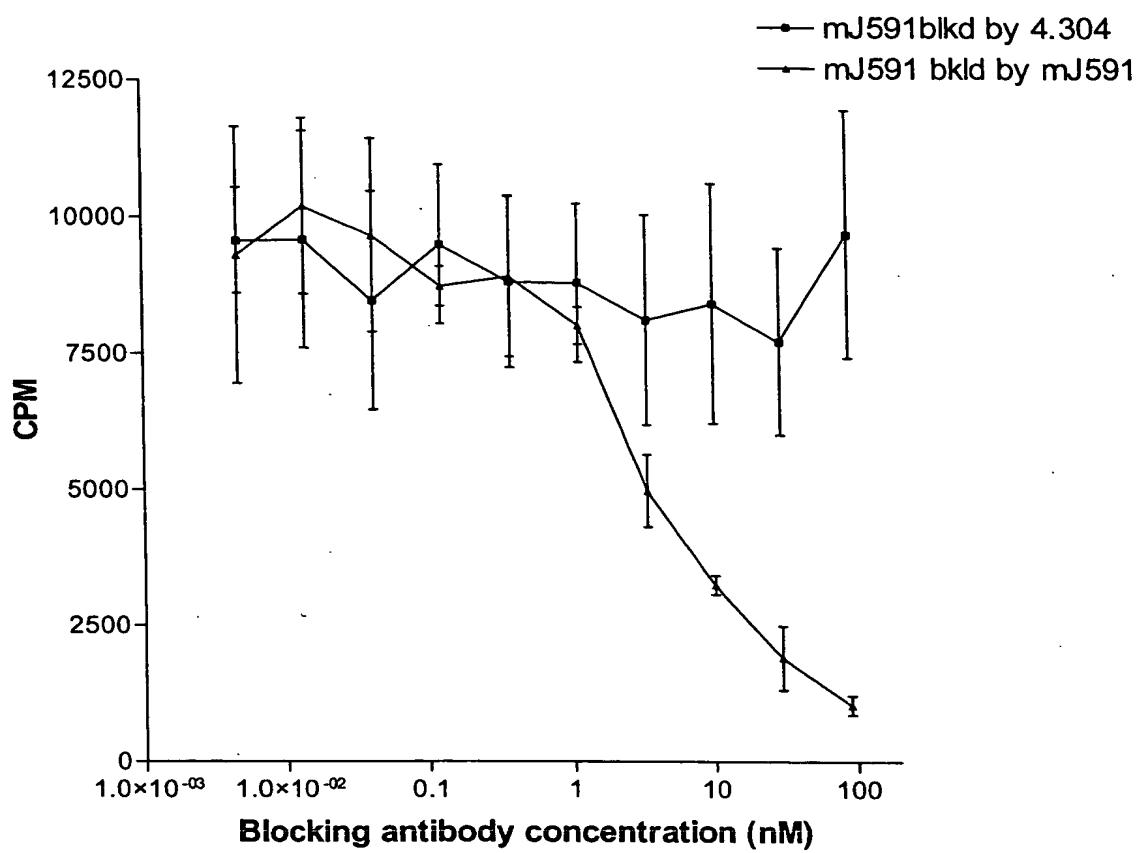


Fig. 33

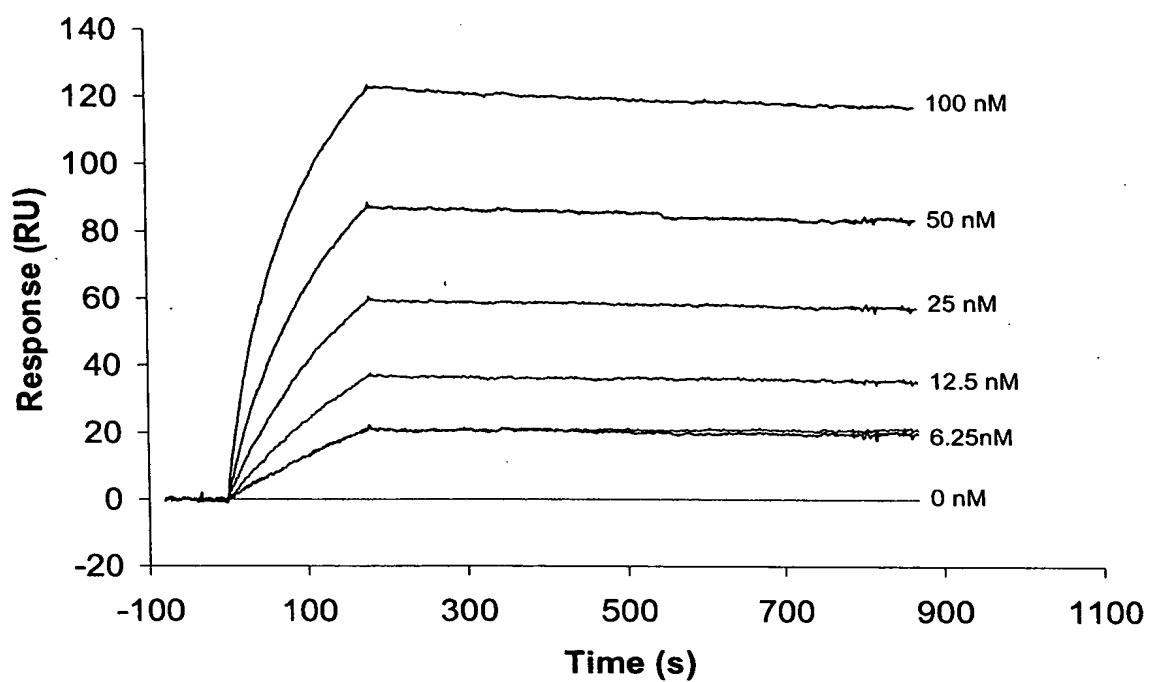


Fig. 34

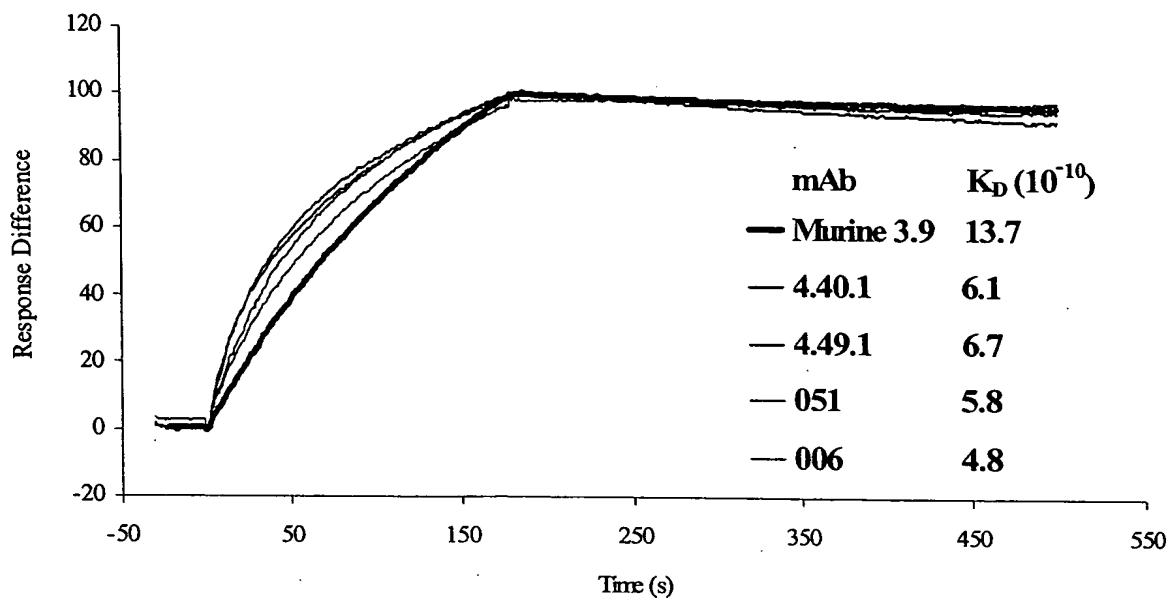


Fig. 35

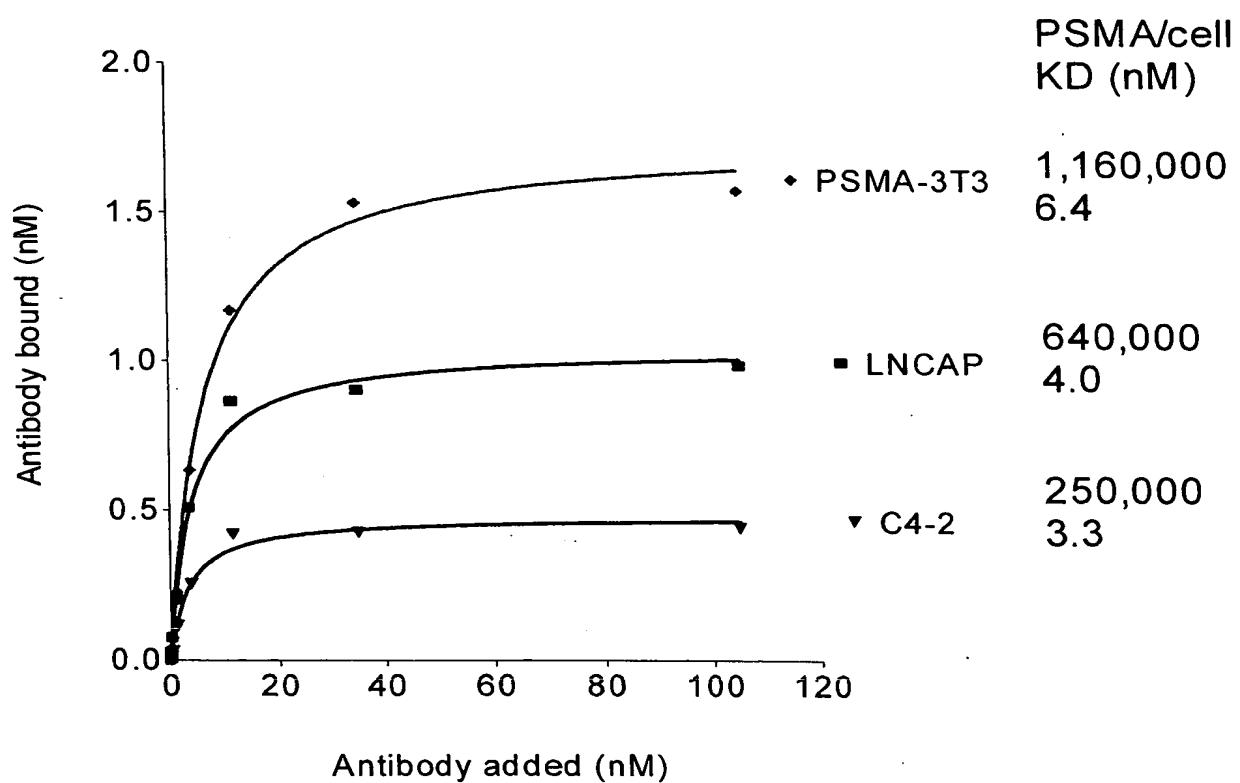


Fig. 3lo

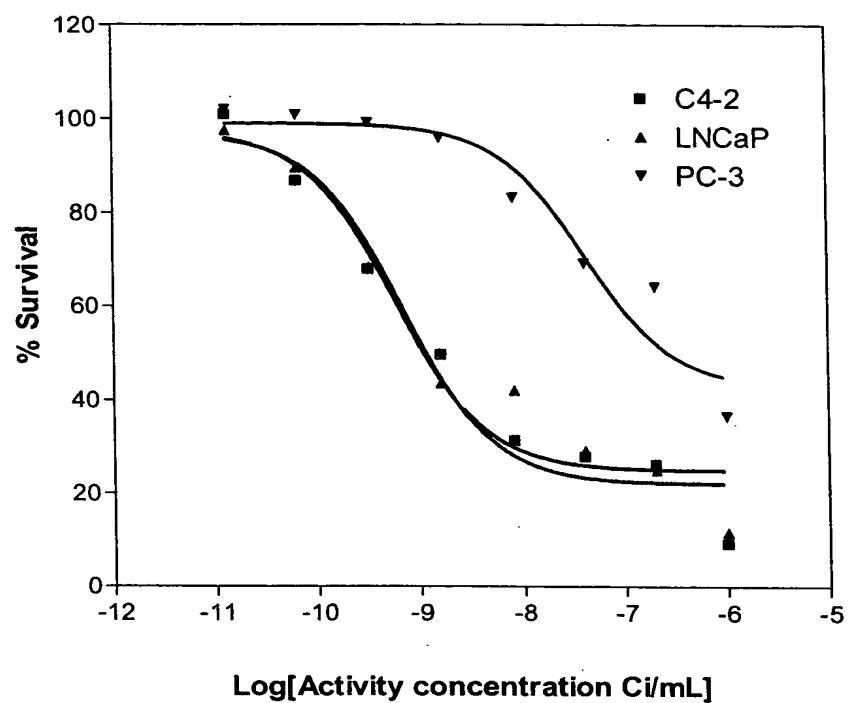
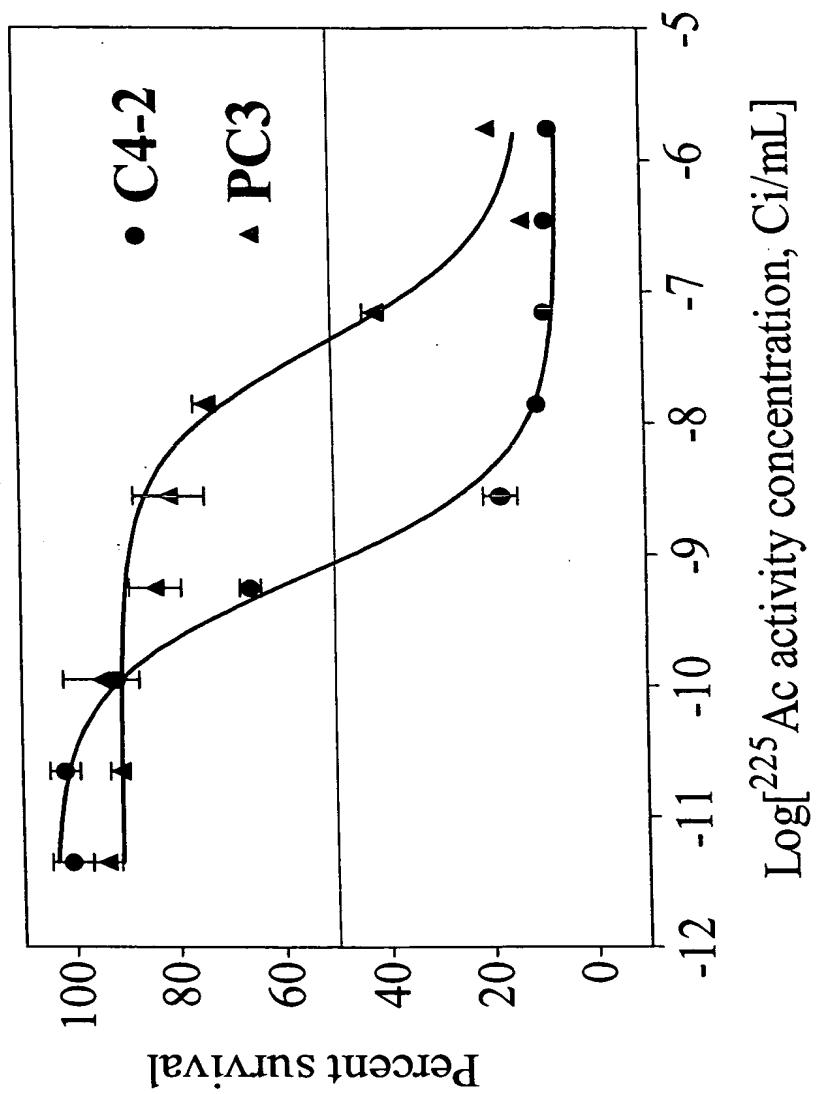
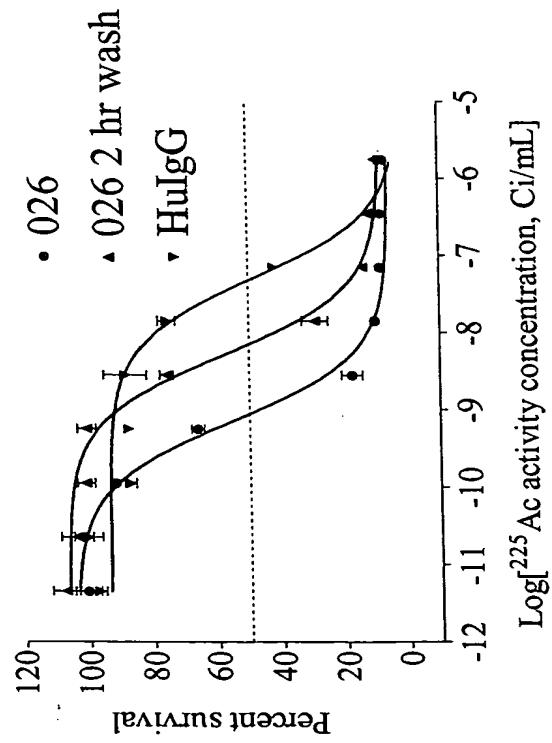


Fig. 37

Fig. 3g



## C4-2



## LNCaP

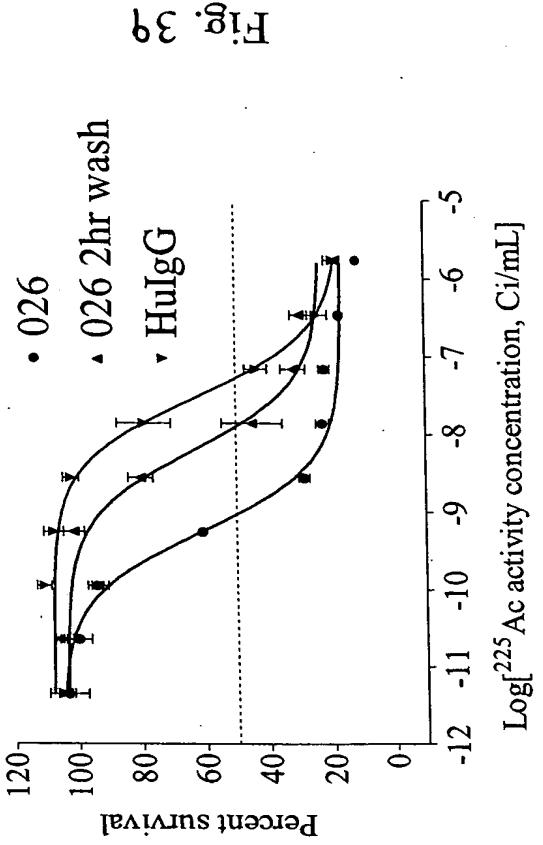


Fig. 6

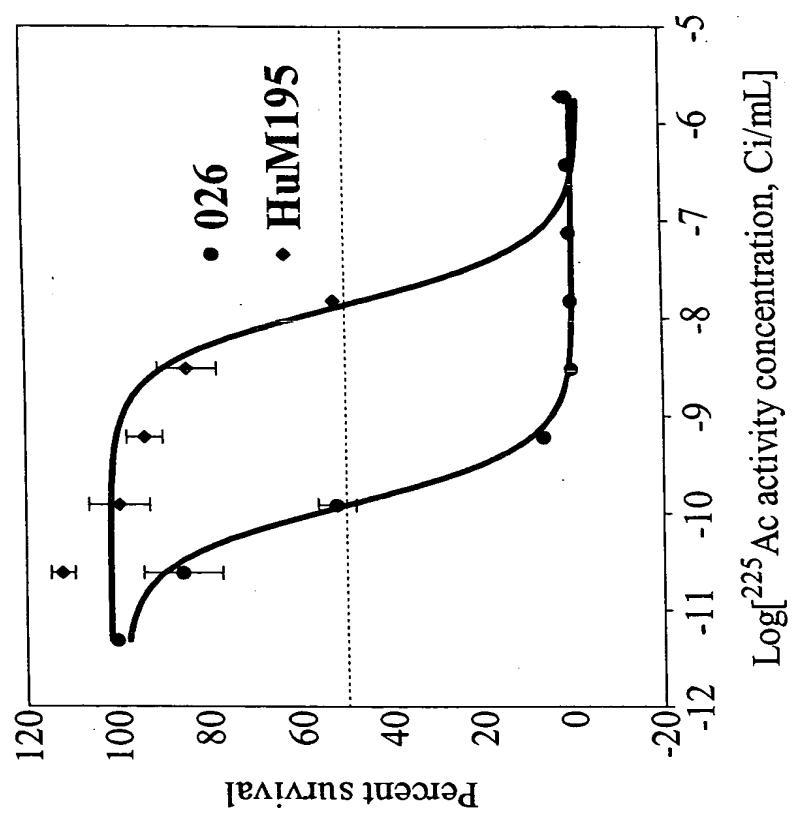
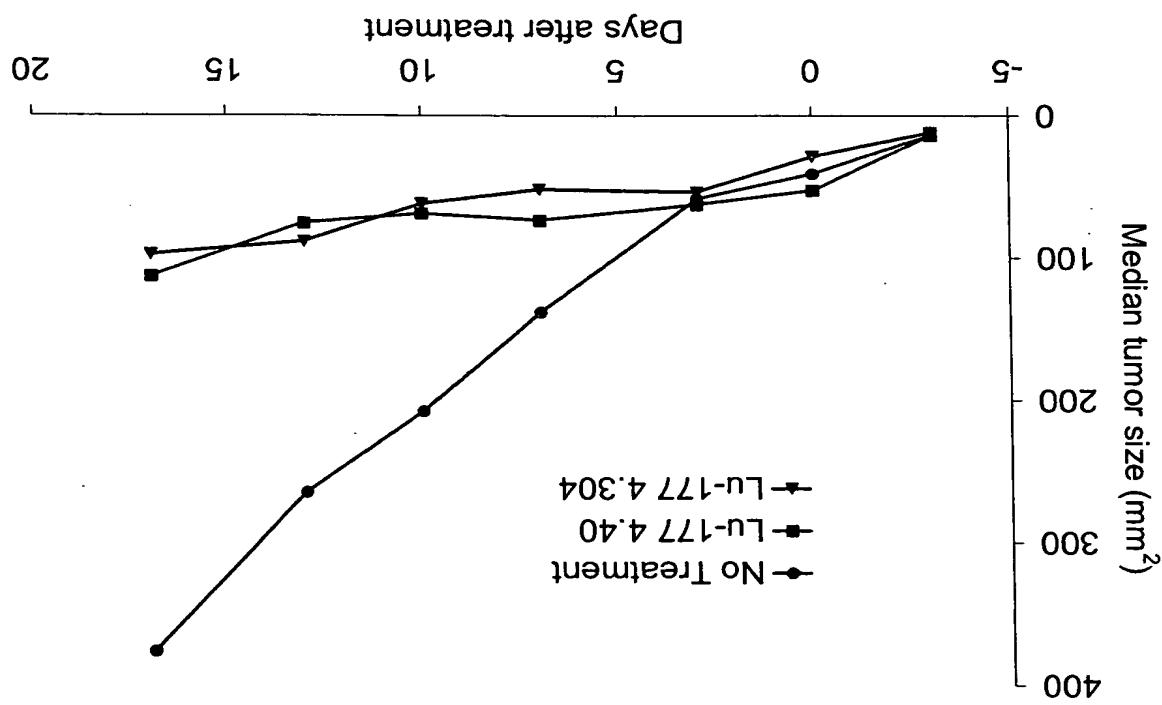
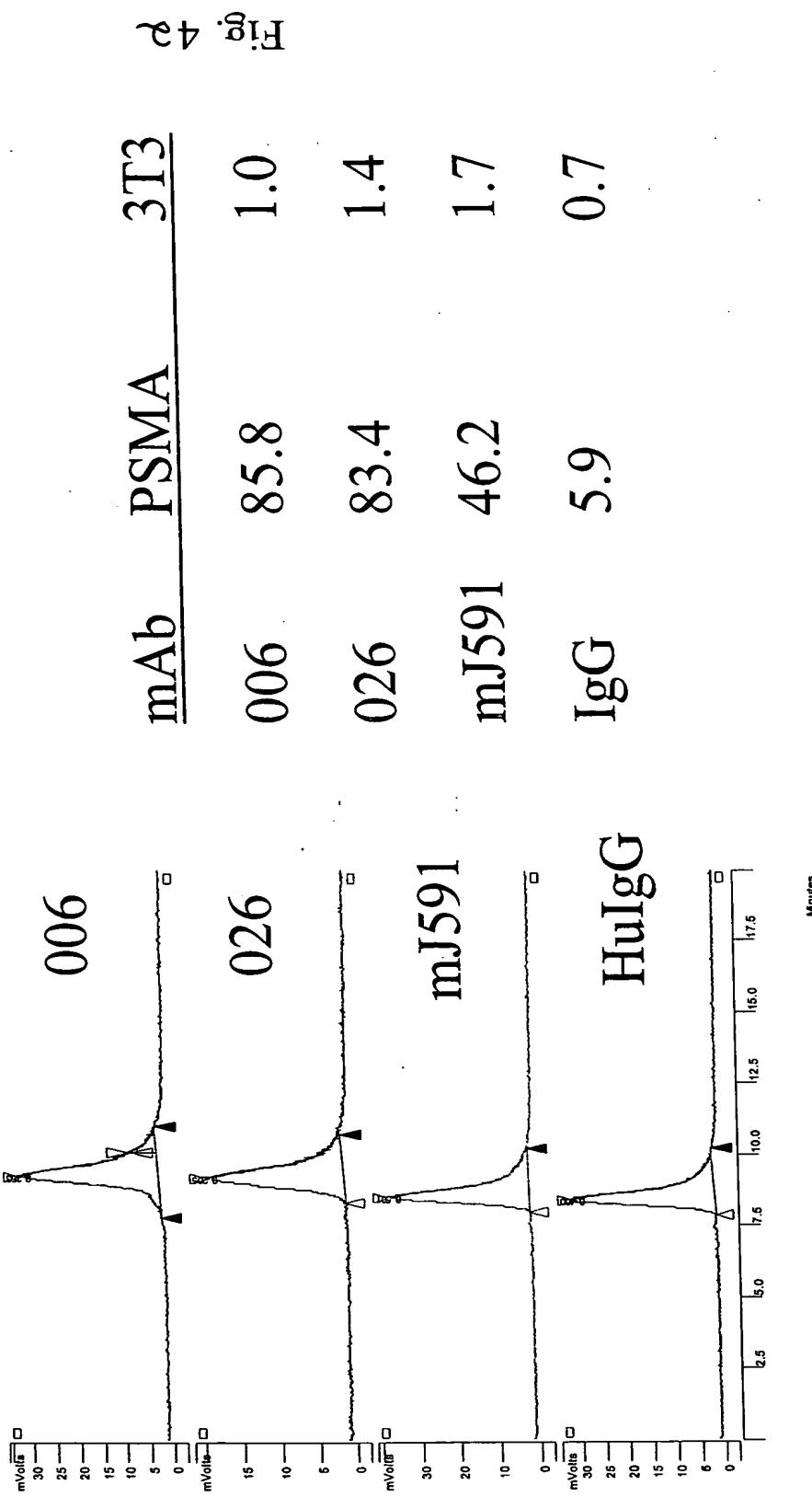


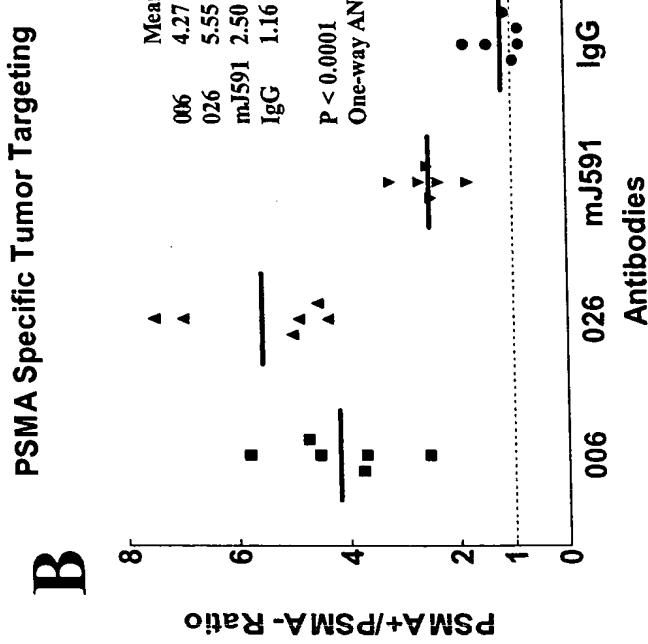
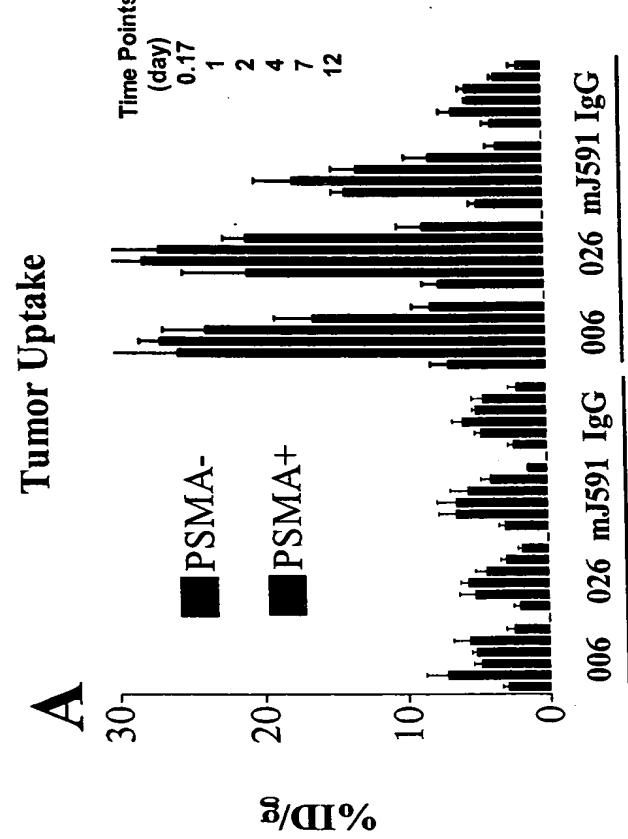
Fig. 41



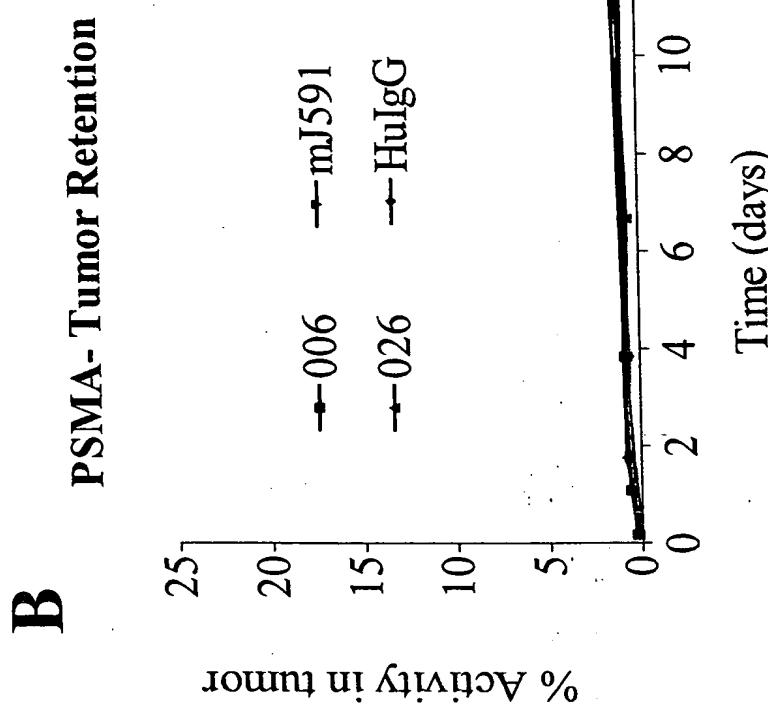
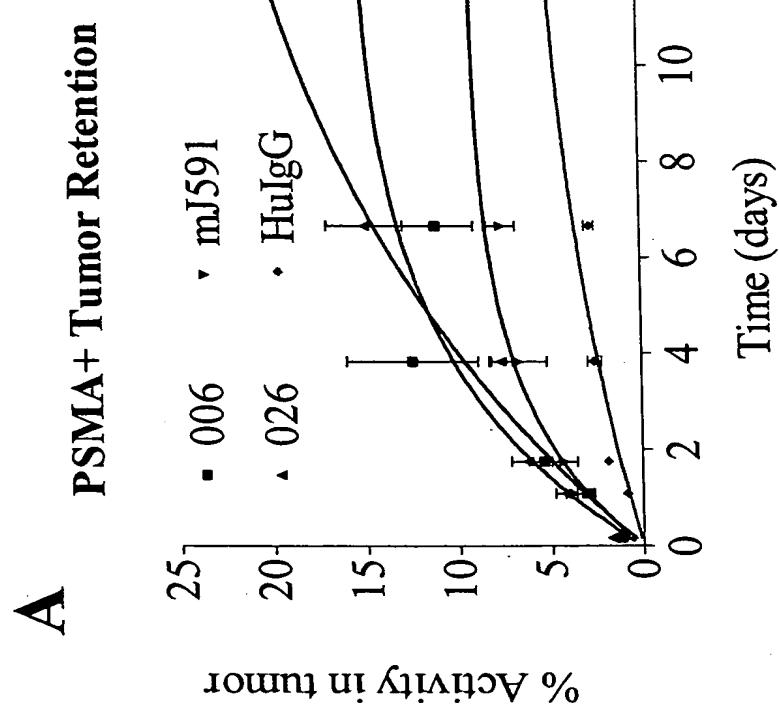
## Radio-HPLC profile

### Cell Based Immunoreactivity (%)



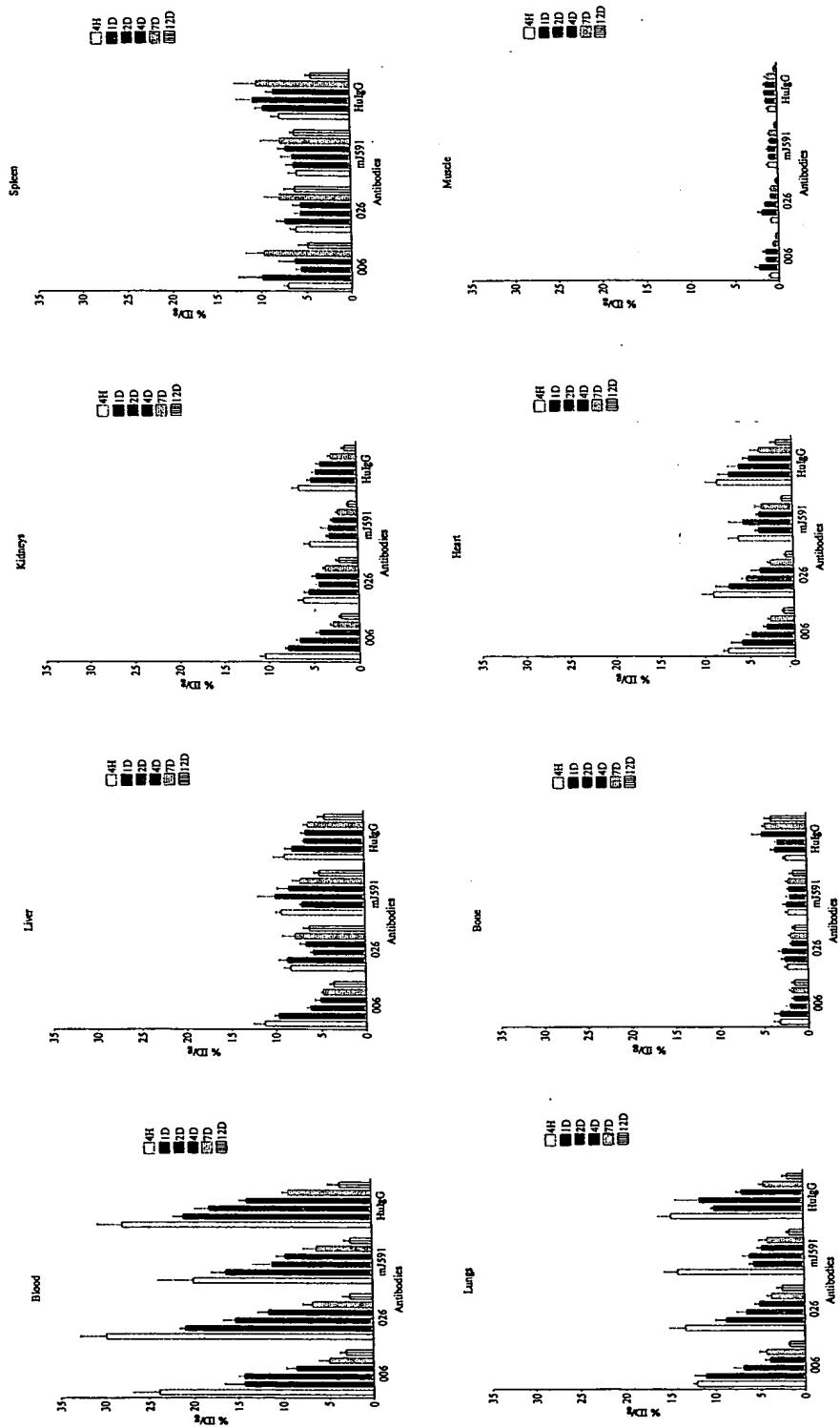


Hg. 43



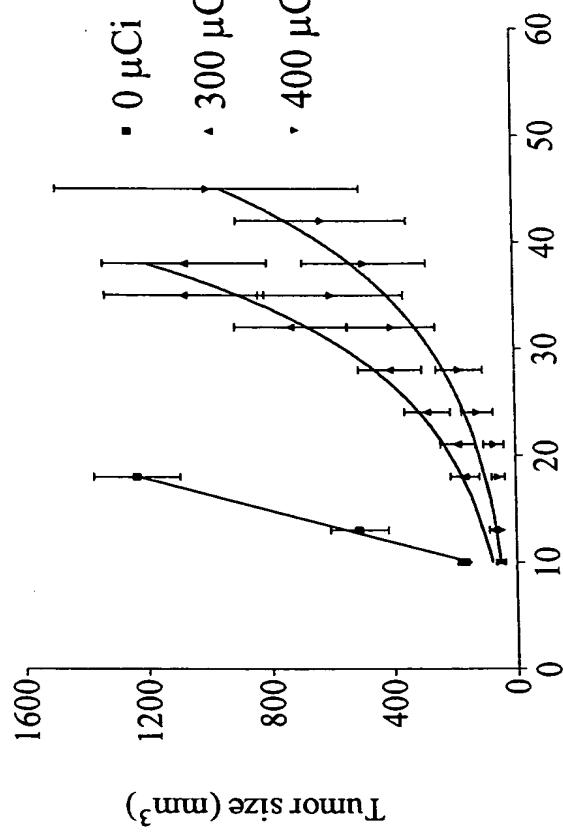
$\text{Fe-64}$

Fig. 45



# **$^{177}\text{Lu}$ Labeled mAb 026**

## **A** Mean PSMA-3T3 Tumor Size



## **B** Kaplan-Meier Survival Curve

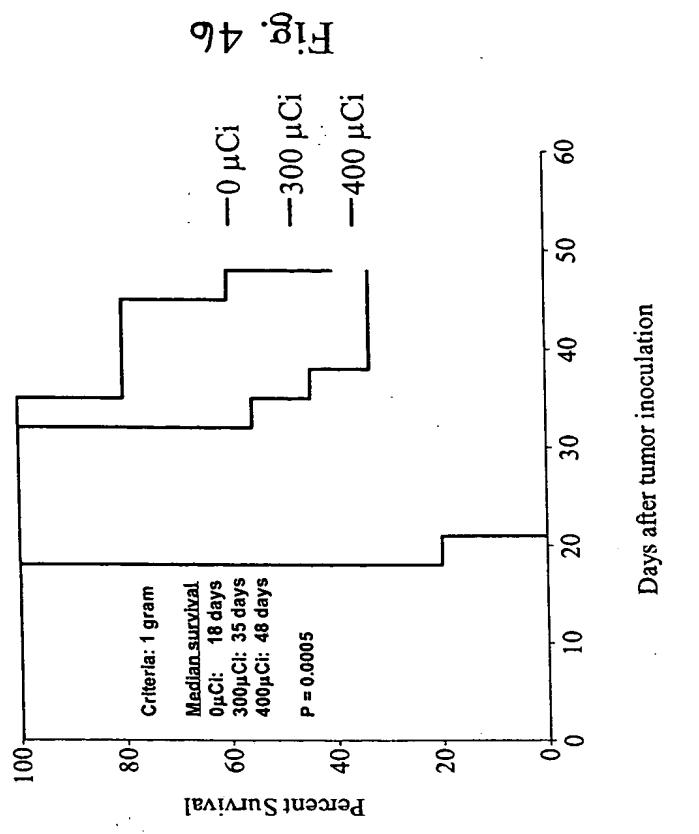


Fig. 47

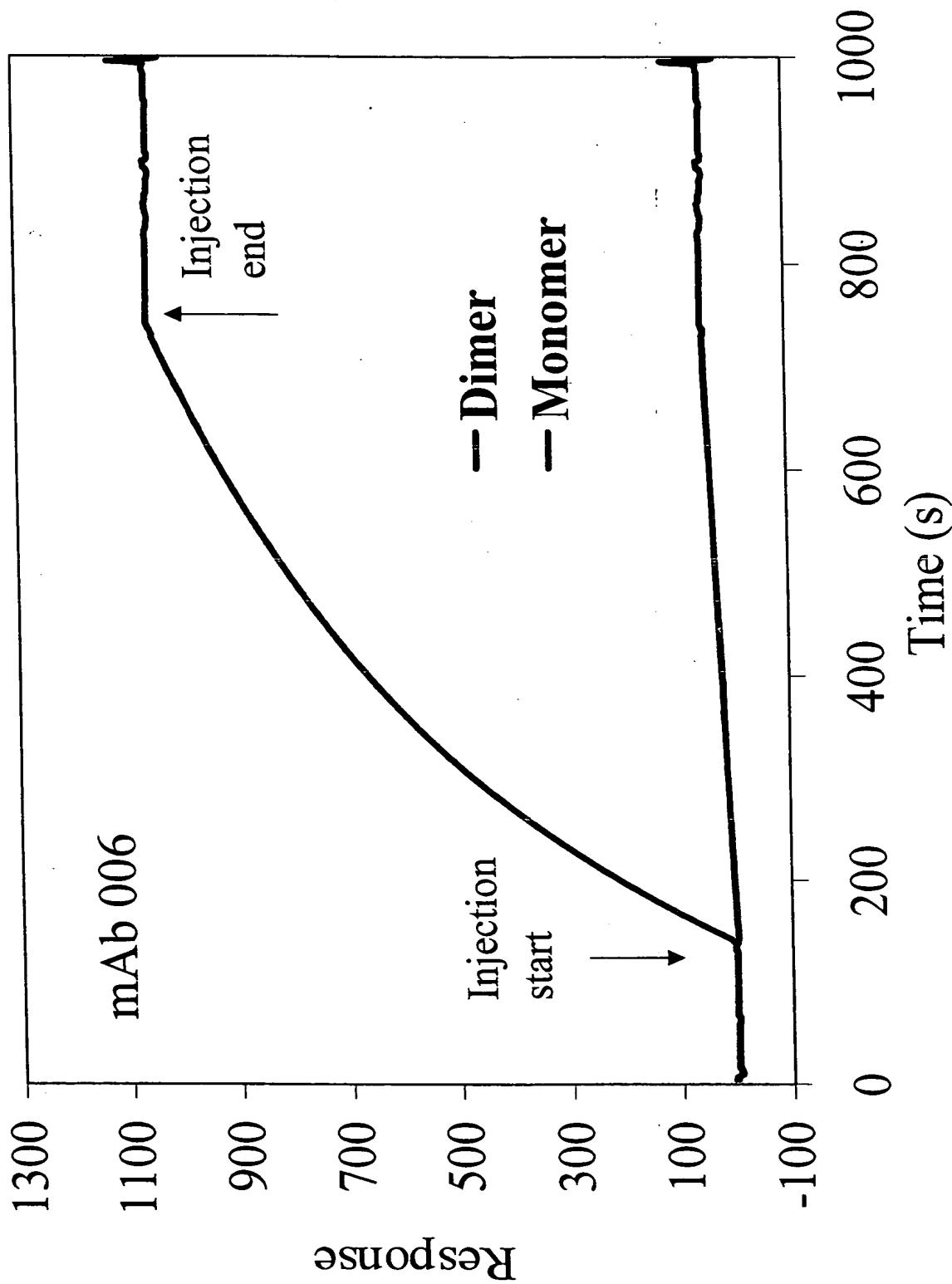


Fig. 4g

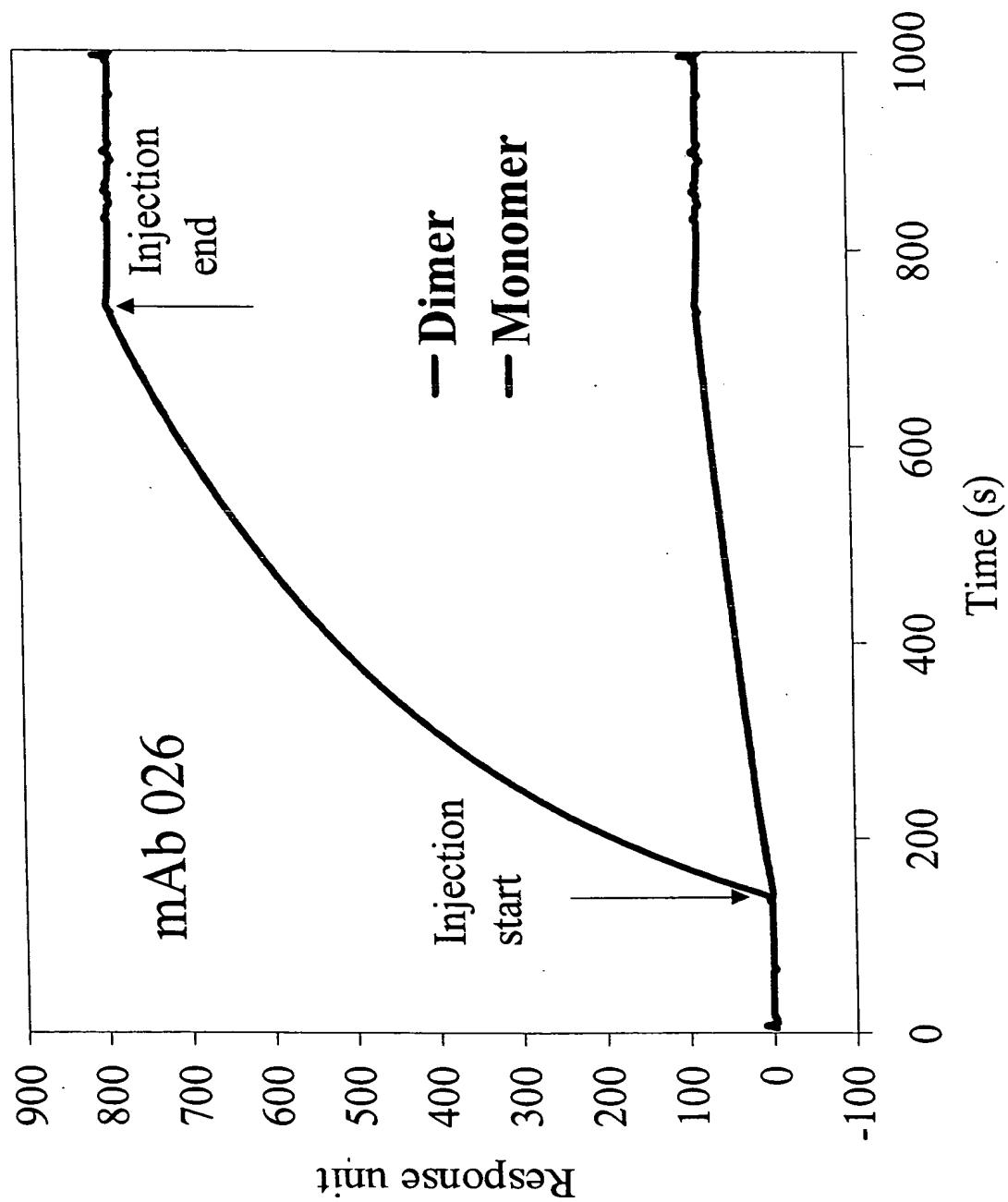


Fig. 49

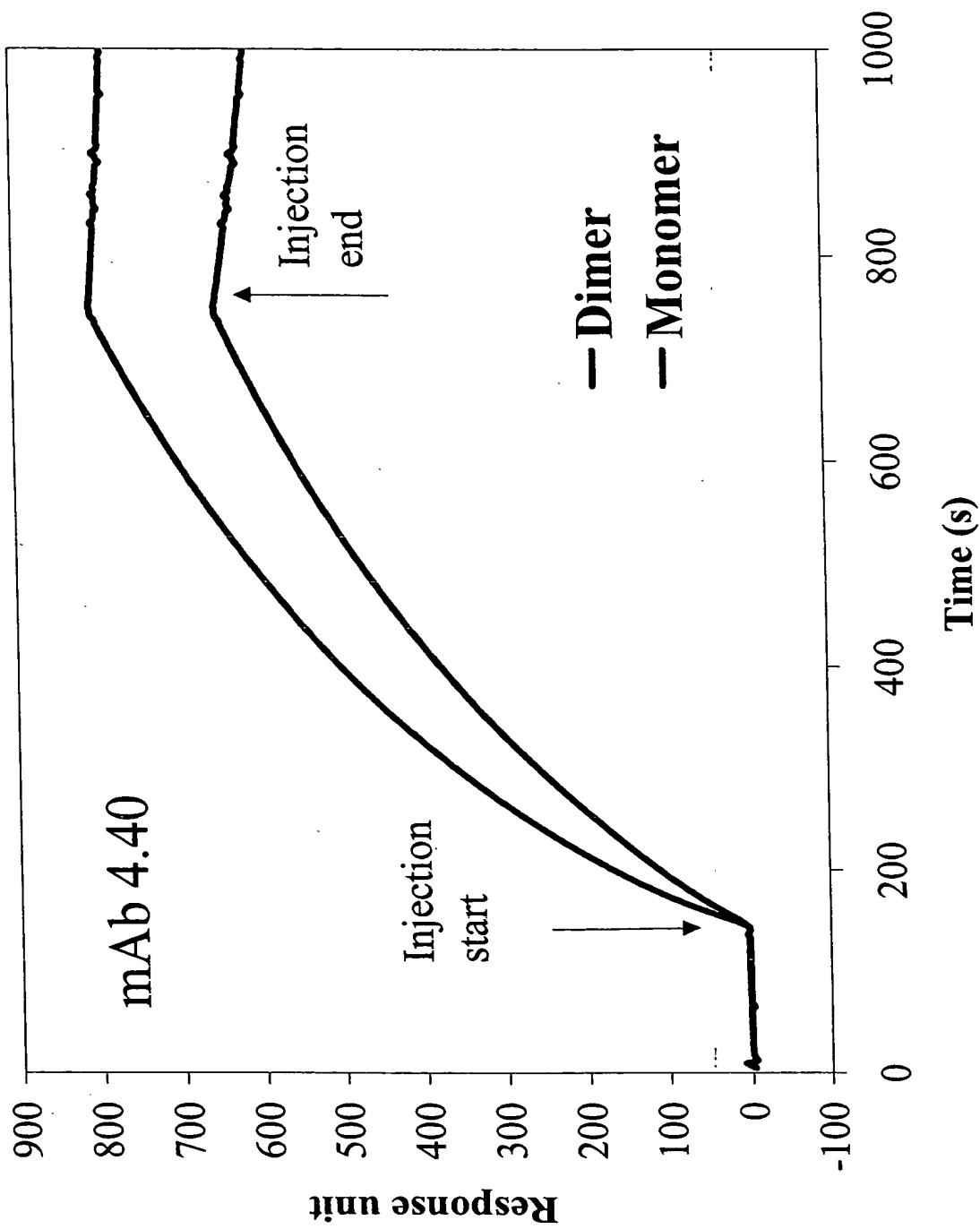
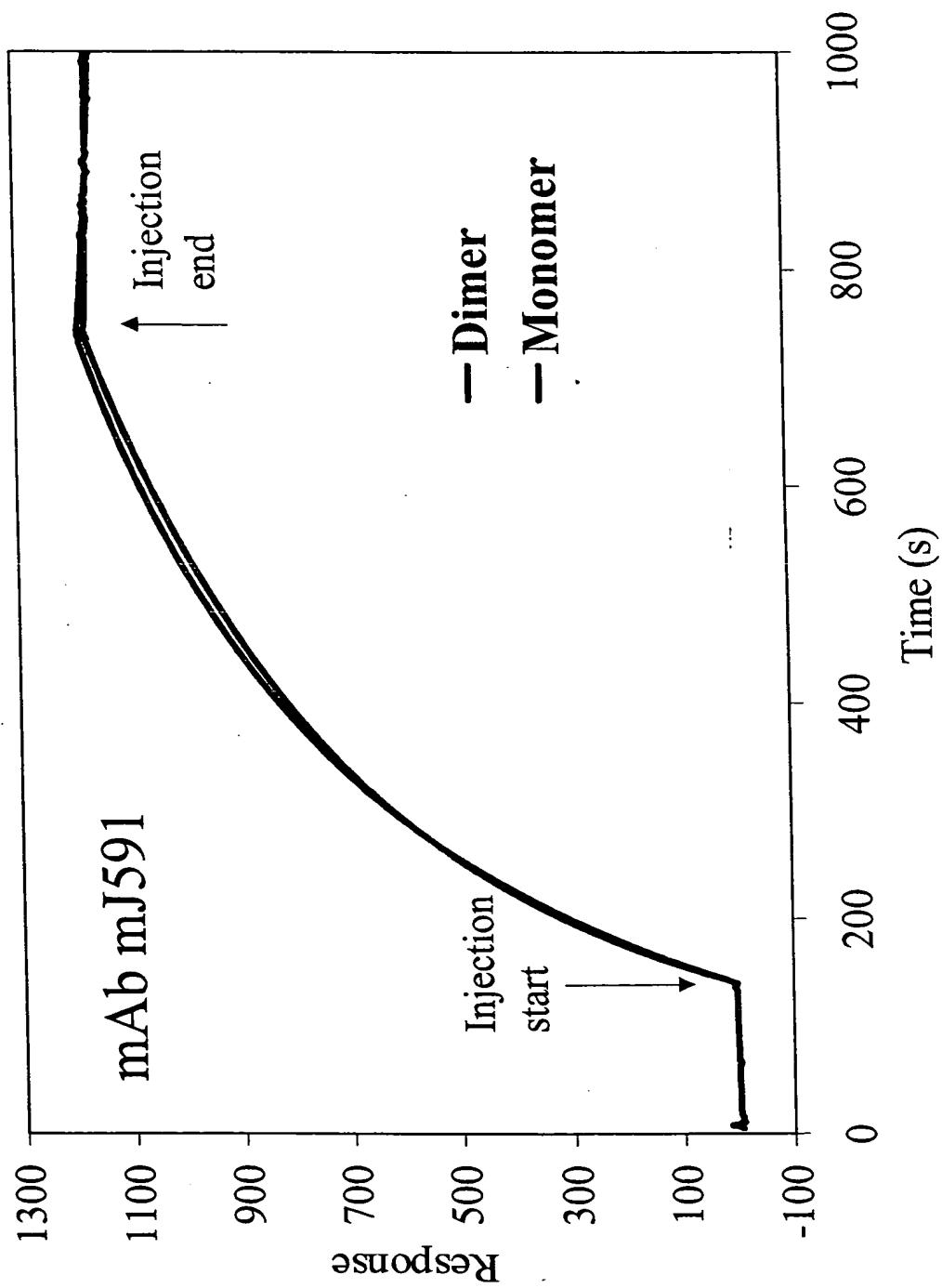


Fig. 5C



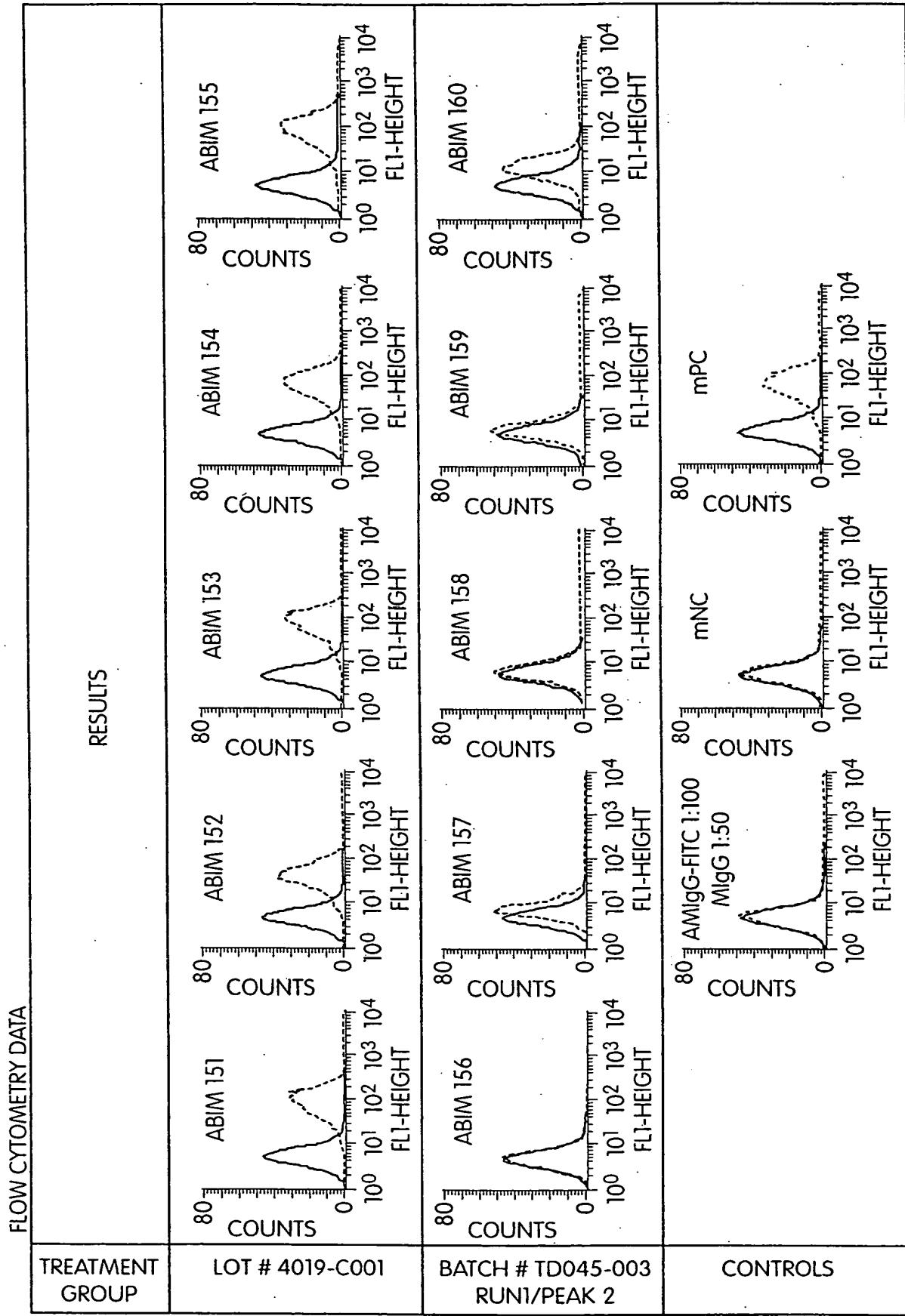
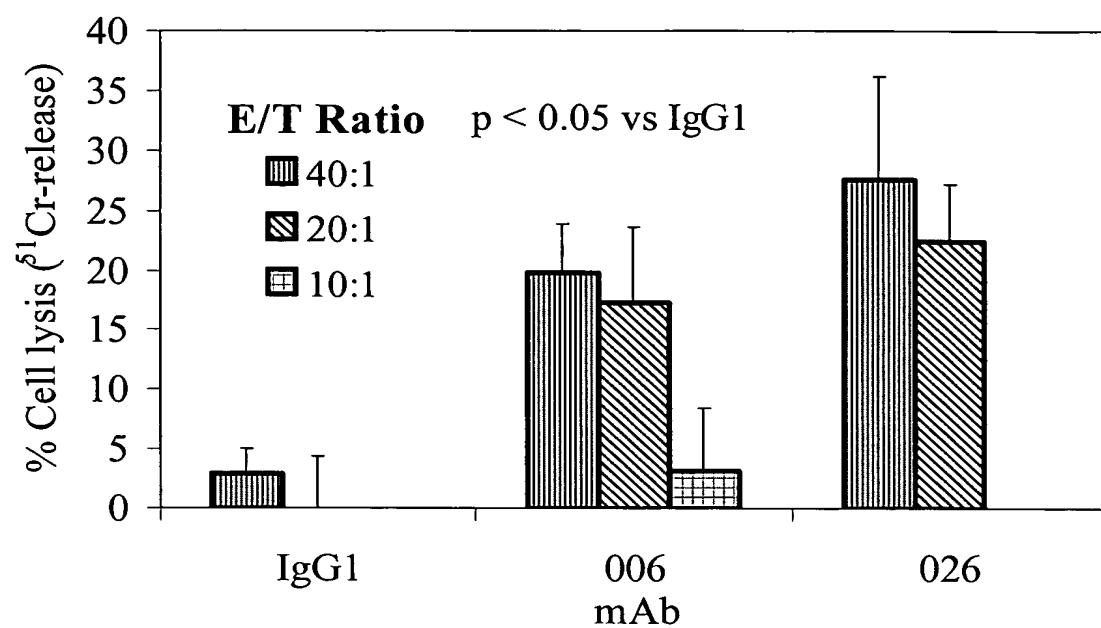
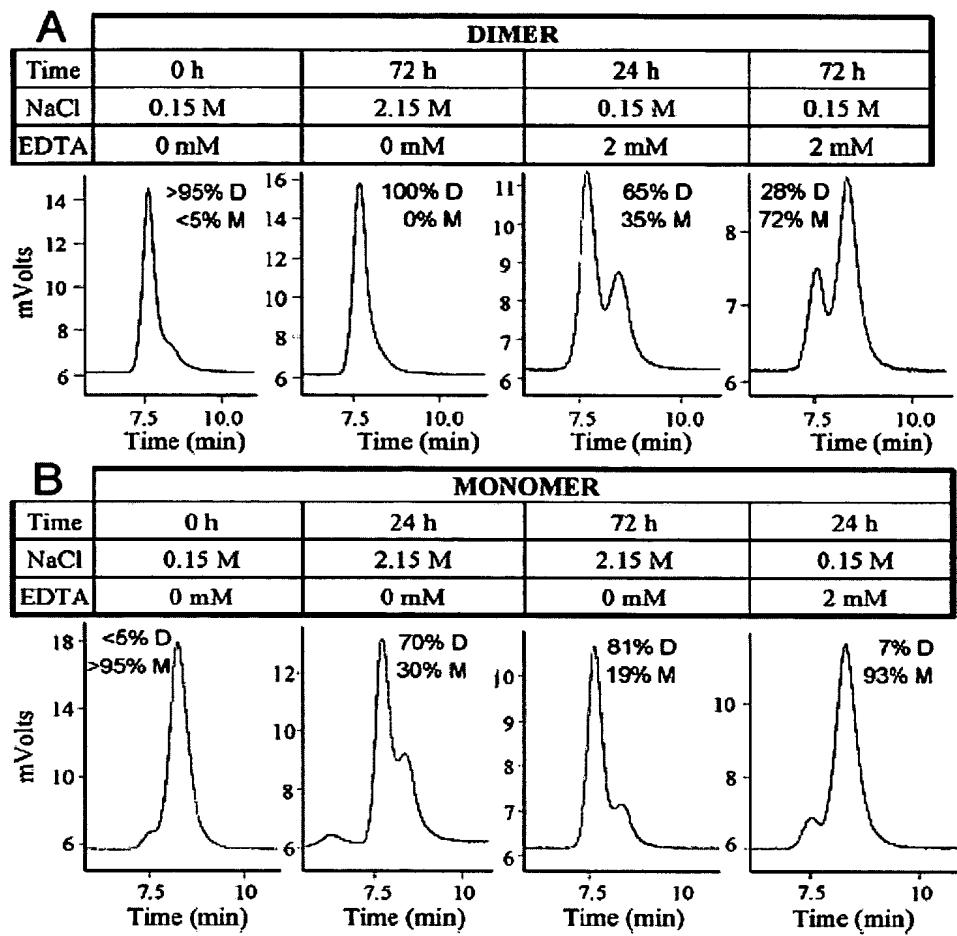


Fig. 51



**Fig. 52**



**Fig. 53**